| | REPÚBI AGÊNCIA REGISTR | ICA FEDERATIV | A DO BRASIL AVIAÇÃO CIVIL O BRASILEIRO ANAC |
|--|--|---|---|
| Marcas (Registration Marks) | GERTIFIC | All DE AERONA | tificate |
| PP-RST N° Certificado / Certificate Number | Fabricante (Manufactur | er) | 1ª VIA Ano de Fabricação / Year of Manufacture |
| 17859 Modelo / Model | CESSNA A | IRCRAFT N° de Série / Serial Number | 2005 Cat. de Registro / Rég. Category |
| 560XLS | Certification Category | 560-5579 | ТРР |
| TRANSPORTE Peso Max, Decolagem / Max, * 9163 Deceder / Operator | T. O. Gross Weight | Nº Max. Passageiros / Max. Pass | enger Capacity Nº Min, Tripulantes / Minimum Crew 2 Tipo ICAO / ICAO Type |
| CONSTRUTORA Este Certificado de Aeronavi Brasileiro de Aeronáutica, de mencionado, pará a aeronave menos que previamente susper This Certificate of Airworthiner 1986, and the Brazilian Regulat s considered to be airworthy wi | oas s.a. EM REC egabilidade é emitido confr 19 de dezembro de 1986. acima identificada, a qual não ou cancelado. ss is issued pursuant to Anne ion of Civil Aviation (RBAC) hile maintained and operate | C. JUDICIAL orme o Anexo 8 da Convenção so e o Regulamento Brasileiro de é considerada aeronavegável en ex 8 of the International Civil Aviatio applicable to the certification cate d in accordance with the pertinent | C56X bbre Aviação Civil Internacional, de 7 de dezembro de 1944, o Códi Aviação Civil (RBAC), aplicavel à categoria de homologação acin quanto mantida e operada de acordo com as limitações pertinentes, bon Convention of december 7, 1944, the Brazilian Air Law of december 1 gory above mentioned, in respect of the above mentioned aircraft, white l limitations, unless previously suspended or canceled. |
| Observações / Remarks ********* | **** | **** | ****** |
| ************************************** | * *** * ****** m Date Data de Valid | ************************************** | Malling The Martin & |
| LITERAL LAND BUILD BUILD DIG DI BUILD D | | | Registro Aeronautico Brasteiro |

| | MAI | FICHA I DI | O ANU ÇÃO UAL-005 | AL | 1/01 | 984 | / IV | IARCAS PP-RST | | | |
|---|-----------------------------|----------------------------|--|----------|----------------------------|--------------|------------------------------|------------------------------------|---|--|--|
| NÚMERO DO CHE/CHETA: 6905-01/ANAC | | | | | CÓDIGO | DAE | MPRESA | 08819 | | | |
| | | CONTRACTOR STREET, STOCKER | I-DA | DOS D | O OPE | RAD | OR | ST 27,04000,02 (STIN, BBW VOLLOWIN | | and an and the second | |
| NOME: T | AM AVIAÇÃO E | XECUTIVA | E TAXI A | EREO SA | 4 | | | | | | |
| ENDERE | ÇO: RUA MON | SENHOR A | NTONIO P | EPE 94 - | - PQ JAE | AQUA | ARA – SĂ | O PAULO - | SP | unicities into the interval of the state of the | |
| | | | 11 – D/ | ADOS D | DA AER | ONA | VE | | | | |
| FABRICANTE: CESSNA AIRCRAFT | | | | MODEL | D: 560 | XL | | | | | |
| NÚMERC | DE SÉRIE: 56 | 0-5579 | | | ANO DE | FABF | RICAÇÃO | 2005 | | | |
| CATEGO | RIA DE HOMO | LOGAÇÃO: | TRANSPO | DRTE | CATEGO | ORIA | DE REGIS | STRO: TPX | | | |
| COR PRI | EDOMINANTE: | BRANCA | | | PESO M | ÁXIM | O DE DE | COLAGEM | (kg): 9072 | 2 | |
| TRIPULA | ÇÃO MÍNIMA E | EA: 02 | | | TRIP. M | NIMA | CAT. RE | GISTRO: 0 | 2 | | |
| Nº DE AS | SSENTOS PAX | NA EA: 12 | | | Nº DE A | SSEN | TOS PAX | NA IAM: 0 | 7 | | |
| TOTAL D | E ASSENTOS | NA EA: 14 | | | TOTAL | DE AS | SENTOS | NA IAM: 0 | 9 | | |
| HORAS | TOTAIS: 2280,9 | | | | CICLOS | TOTA | AIS: 1676 | | | | |
| NÚMERO | DO CA: 17859 |) | | | VALIDADE DO GA: 26/09/2020 | | | | | | |
| Nº DA LICENÇA DE ESTAÇÃO: 000056/2015-SP | | | VALIDADE DA LICENÇA DE ESTAÇÃO: 18/02/2035 | | | | | | | | |
| DATA DA | A ÚLTIMA PESA | AGEM: 26/08 | 3/2014 | | | | ant action of Res August The | | AND A DESCRIPTION OF A | New Colorest Colorest Colorest | |
| Internet of the other states of the | | | III - DA | DOS D | O(S) M0 | OTOF | R(ES) | | | | |
| FABRICANTE: PRATT & WHITNEY TIPO ÚLT. INSP. | | | M1: MIN | OR | M2: | MINOR | M3: N/A | M4: N/A | | | |
| Р | MODELO | Nº E | E SÉRIE | TSN | CS | N | TSO | CSO | TSLI | CSLI | |
| 1 | PW545B | PCE | -DD0160 | 2280,9 | 3 164 | 19 | NOVO | NOVO | 0,0 | 0 | |
| 2 | PW545B | PCE | -DD0164 | 2280,9 | 9 164 | 19 | NOVO | NOVO | 0,0 | 0 | |
| 3 | NA | | NA | NA | N/ | 1 | NA | NA | NA | NA | |
| 4 | NA | | NA | NA | N | 1 | NA | NΛ | NA | NA | |
| <u>an na milantar yn </u> | THE REPORT OF THE REPORT OF | AND REAL AND A COLUMNIA | IV - DA | ADOS [| DA(S) H | ÉLIC | E(S) | | | | |
| FABRIC | ANTE: NA | | TIPO ŬL | T. INSP. | H1: NA | | H2: NA | H3: 1 | NA | H4: NA | |
| P | MODELO | Nº E | DE SÉRIE | | TSN | | TSO | | - | TSLI | |
| 1 | NA | | NA | NA | | | NA | | | NA | |
| 2 | NA | | NA | | NA | | 1 | NА | K NA | | |
| 3 | NA | | NA | | NA | | 1 | NA NA | | NA | |
| 4 | NA | | NA | NA | | | | NА | | NA | |
| | | | V – SE | GURO | DAAE | RON | AVE | | | | |
| ADITIVC |) (B): 1 🖾 | 2 🛛 3 | ⊠ 4 ⊠ | 5 🖾 | SEG | URAE PORA | OORA: AC | E SEGURO | s soluçõ | DES | |
| Nº DA A | PÓLICE: 37.28. | 4000013 | | | VAL | | E: 31/03/2 | 016 | | - | |
| Respons | sável pela exect | ução: | 6 | 2 | Respo | onsáv€ | el pela ins | peção: | | | |

| RELATÓRIO DOS SERVIÇOS SIGNIFICATIVOS DE ÚLTIMA IAM E OS SERVIÇOS REALIZADOS DUR cumprimento de Diretrizes de Aeronavegabilidade, recuperação após acidente, etc.): | E MANUTENÇÃO RE/ ANTE A IAM ATUAL troca de componente: | ALIZADOS NA AERONAVE DESDE A (Inspeções programadas, calibrações, s por motivo de vencimento de TBO, | | | |
|--|--|--|--|--|--|
| 1 - Verificações requeridas pelo Apêndice "D" do RBHA 43, conforme aplicável (relacionar e relatar as não- conformidades caso encontradas, registrar números das OS correspondentes): | | | | | |
| vide ordem de serviço tam №. 81606. | | | | | |
| 2 - Serviços verificados realizados desde a IA responsáveis): | M anterior (registrar | nome das empresas homologadas | | | |
| VIDE ORDENS DE SERVIÇO TAM N°. 81405, 81 | 204, 80872, 80684 | , 80318, 80152, 79886. | | | |
| 3 - Serviços realizados na presente IAM (registrar de correspondentes): | escrição, dados técnico | os correspondentes e números das OS | | | |
| vide ordem de serviço tam nº. 81606. | | | | | |
| | | | | | |
| 4 - Manutenção postergada (informar o motivo e o res | sponsável pela decisão | ou N/A, caso não exista): | | | |
| NA | | | | | |
| 5 - Não-conformidades observadas (mencionar o núr parágrafo 43.11 (b) do RBHA 43. ou N/A, caso não ex | mero do documento en xistam): | tregue ao operador, conforme requer o | | | |
| NA | | | | | |
| A aeronave de que trata esta FIAM foi APROVAD | |] para retorno ao serviço nesta data | | | |
| LOCAL: | DATA; | VALIDADE DA IAM. | | | |
| JUNDIAI - SP | 06/11/2015 | 06/11/2016 Assinatura: | | | |
| Responsaver pela execução / coulgo AIVAO / OFICA. | | al al | | | |
| SAULO LISBOA VIEIRA COD. ANAC Nº 11425-9 | Le | | | | |
| Responsável pela inspeção / Código ANAC / CREA: ALBERTO KEIGI SUGIMO CREA SP Nº 5061743625 | Assinatura: | | | | |
| | | | | | |



Consulta realizada em: 11/02/2019 12:27:45

| | REPÚBLICA FED AGÊNCIA NACION REGISTRO AERON | ERATIVA DO BRASII AL DE AVIAÇÃO CIV IÁUTICO BRASILEIF | |
|--|--|--|--|
| | CERTIFICADO | DE MATRÍCULA of Registration | ANAC AMENCIA NACIONAL DE AVIAÇÃO CIVIL Via (Copy) |
| Marcas (Registration Marks) | Fabricante (Manufacturer) | R. | 1º VIA N° Certificado (Certificate Number) |
| PP-RST Modelo (Mndel) | CESSNA AIRCRAFT | * | 17859 N° do Série (Aircrafi Seriel Number) |
| SGOXLS Proprietário (Owner) | 12 | | 560-5579 GVP3CPF (General Cadroart of Texperyets) |
| BRADESCO LEAS Endereço (Asdress) | SING S.A ARREND.MERCANTIL | | 47.509.120/0001-82 UF (State) |
| CIDADE DE DEU Operador (Operator) | IS SN PREDIO PRATA ZANDAR | VILA YA - OSASCO | |
| CONSTRUTORA Endereço (Address) | CAS S.A. EM REC. JUDICIAL | I A T | 14.310.577/0001-04 |
| AV FRANCISCO Observações (Remona) | MATARAZZO 1350, ANDAR 17 | SALA 17 - SAO PAULO | SP SP |
| ARRENDAMENT | O MERCANTIL | | |
| | cima descrite loi devidamente issente no Benistro | AstonSutire Brasileiro de acordo com e | Anexa 7 da Cenvengão sobre Avieção Civil |
| Certifico que a seronavo a internacional, de 7 de deze | mbro de 1944, e e Código Srasileiro de Aeronautic | a, de 19 de decembro de 1986. | |
| Certifico que a seronava a internacional, de 7 da deza i cartify inat aircraft igentific 7, 1944 and the Brazilian Lo | mbro de 1944, e e Códige Brasileiro de Aeronauto lo above was properly inscript in the Civil Air Agono ve of december 19, 1986 | ia, de 19 de decembro de 1986. ly m accordance with the Annas 7 of Intern | abonal Civil Aviation Convention of december |
| Certifico que a seronava a internacional, de 7 da deza i cartify inat aircraft identifiq 7, 1944 and the Brazilien Li Data de Expedição (Exped | mbro de 1944, e d Códige Brasileiro de Aeronauto no above was properly inscript in the Civil Air Agono Le of Geoemitier 19, 1955 Illion Date) | a, de 19 de dezembro de 1986. y m accordence with the Arries 7 of Intern | Annai Civil Avistion Convention of december Anna Sullar |

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Cessna Helicopter FlightSafety.

TAM Aviação Executiva e Táxi Aéreo S.A. Rua Monsenhor Antônio Pepe, nº 94 Jardim Aeroporto 04357-900 São Paulo - SP Brasil Tel: +55 11 2890.7800 | Fax: +55 11 2890. 7856 Call Center Fretamento +55 11 4002.7000 Coordenação de Voo (24hs): +55 11 2890. 7756 | 28980 7753 www.tamaviacaoexecutiva.com.br

ANÁLISE DE PRESERVAÇÃO DE MOTORES

PP-RST

FABRICANTE: CESSNA AIRCRAFT MODELO: 560XLS SERIAL NUMBER: 560-5579

ABRIL / 2020

Jundiaí

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Rio de Janeiro

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Belo Horizonte - Pátio Norte





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Este relatório tem como objetivo analisar os requerimentos para preservação dos motores PW545B especificados no Manual de Manutenção de Motor da PWC P/N 30J2242 e os registros das preservações efetuadas para os motores S/N PCE-DD0160 e S/N PCE-DD0164, instalados atualmente nas posições LH e RH (respectivamente) da aeronave PP-RST.

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01. INFORMAÇÕES GERAIS DA AERONAVE

| INFORMAÇÕES DA AERONAVE | | | | | | |
|---|-------------------|-----------------|----------------------------|-----------------------------|--|--|
| PREFIXO: PP-RST FABRICANTE: 0 | | CESSNA AIRCRAFT | MODELO: 560XLS | | | |
| SERIAL NUMBER: 560-5579 | | | CATEGORIA DE REGISTRO: TPP | | | |
| TSN: 2280,4 | | | LSN: 1678 | | | |
| ÚLTIMO VOO EM: 25/JUN/2015 (TRECHO SBSP/SBJD) | | | | | | |
| INFORMAÇÕES DOS MOTORES | | | | | | |
| MOTOR LH | | | MOTOR RH | | | |
| MODELO: PW545B | | MODELO: PW545B | | | | |
| SN: PCE-DD0160 | | SN: PCE-DD0164 | | | | |
| TSN: 2280,4 | CSN: 10 | 650 | TSN: 2280,4 | CSN: 1650 | | |
| TSO: NEW | CSO: N | EW | TSO: NEW | CSO: NEW | | |
| HSI (2500 HRS): | 219,6 H DISPON | ORAS NÍVEIS | HSI (2500 HRS): | 219,6 HORAS DISPONÍVEIS | | |
| OVERHAUL (5000 HRS) | 2719,6 DISPON | HORAS NÍVEIS | OVERHAUL (5000 HRS) | 2719,6 HORAS DISPONÍVEIS | | |

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02. REQUISITOS DE PRESERVAÇÃO PARA MOTOR PW545B

INFORMAÇÕES DO MANUAL DE MANUTENÇÃO DO MOTOR PW545B, P/N 30J2242, ATUALMENTE NA REVISÃO 29.1 DE 10/MAR/2020.

NO CAPÍTULO 72-00-00, PARÁGRAFO 7 "PRESERVATION/DEPRESERVATION", ITEM A "PRESERVATION", SUBITEM (2), ESTÃO ESTABELECIDOS OS PROCEDIMENTOS E PERÍODOS POSSÍVEIS DE PRESERVAÇÃO DOS MOTORES PW545B:

"(2) The following engine preservation schedule lists procedures to be followed (Ref. Table 302):

- (a) **1 to 7 days** Engines can be left in an inactive state, with no preservation protection, provided engine is sheltered, humidity is not excessively high and engine is not subjected to extreme temperature changes which would produce condensation. Standard engine covers installed to prevent too much windmilling, ingress of foreign objects, water and ice.
- (b) 8 to 28 days Engine inactive for up to 28 days, require no preservation provided all engine openings are sealed off and relative humidity in engine is maintained at less than 40 percent. Humidity control is maintained by placing desiccant bags and humidity indicator on wooden racks in engine exhaust duct. Suitable windows must be provided in exhaust closure to facilitate observation of humidity indicators. Make sure that the desiccant bags do not touch the engine components. The cowl drain hole must not be clogged.
- (c) 29 to 90 days Engine inactive for a period exceeding 28 days, but less than 90 days, need to have fuel system preserved (Ref. Step (3) following), in addition to Steps (2) (a) and (2) (b).
- (d) 91 days and over Engines inactive over 90 days in airframe or removed for long term storage in container, must, in addition to Steps (2) (a), (2) (b) and (2) (c), have engine oil drained. Remove cover plates from unused accessory drive pads and spray exposed surfaces and gearshafts with engine oil (PWC03-001). Replace cover plates. In addition, apply rust inhibitor (PWC15-011) or (PWC15-011A) to intermediate case and AGB external flanges including engine mount locations."

OBS.: O CAPÍTULO 72-00-00 "ENGINE, GENERAL – SERVICING" COMPLETO COM OS PROCEDIMENTOS E TEXTOS DAS PRESERVAÇÕES PODEM SER ENCONTRADOS NO **ANEXO 1** DESSE RELATÓRIO, COM AS PARTES PERTINENTES ÀS VERIFICAÇÕES DE REGISTROS ENCONTRADAS NESSA AERONAVE, DESTACADAS EM VERDE.

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03. VERIFICAÇÃO DE REGISTROS DE PRESERVAÇÃO

CONFORME OS REGISTROS DE MANUTENÇÃO DESSA AERONAVE E DOS MOTORES, AS SEGUINTES PRESERVAÇÕES FORAM EFETUADAS:

OS 81606 – 06/NOV/2015:

PRESERVAÇÃO DE PRAZO SUPERIOR A 90 DIAS (91 DAYS AND OVER). *PRESERVAÇÃO EFETUADA APÓS A FINALIZAÇÃO DE INSPEÇÕES CONTROLADAS (*"LOW UTILIZATION INSPECTION"* E *"MINOR INSPECTION"*).

OS 97706 - 18/MAR/2019:

PRESERVAÇÃO DE PRAZO SUPERIOR A 90 DIAS (91 DAYS AND OVER).

OBS.: A PRESERVAÇÃO PARA PERÍODOS SUPERIOR A 90 DIAS (91 DAYS AND OVER) FOI EFETUADA EM NOV/2015 E É VÁLIDA POR PERÍODO INDETERMINADO. EM MAR/2019, A TAM REVISOU O SERVIÇO PARA O MESMO TIPO DE PRESERVAÇÃO, TAMBÉM COM PRAZO INDETERMINADO, COMO UM MÉTODO DE VERIFICAÇÃO E GARANTIA DA QUALIDADE DO SERVIÇO, VISANDO MANTER ESSES MOTORES NA MELHOR CONDIÇÃO POSSÍVEL ENQUANTO ESTÃO FORA DE OPERAÇÃO. UMA CÓPIA DOS REGISTROS DAS OS'S 81606 E 97706 PODE SER ENCONTRADO NO **ANEXO 2** DESTE RELATÓRIO.

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04. INFORMAÇÕES ADICIONAIS

EM JUL/2016, NA OS TAM 83428, E EM JUN/2018, NA OS TAM 94322, FOI REALIZADA INSPEÇÃO BOROSCÓPICA NOS MOTORES, COM INTUITO DE VERIFICAÇÃO DA CONDIÇÃO INTERNA DOS MOTORES, SENDO QUE NAS DUAS OCASIÕES OS MOTORES FORAM CONSIDERADOS APROVADOS.

OBS.: UMA CÓPIA COMPLETA DAS OS'S 83428 E 94322, COM OS RELATÓRIOS DE INSPEÇÃO BOROSCÓPICA PODE SER ENCONTRADA NO **ANEXO 3** DESTE RELATÓRIO.

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05. CONCLUSÃO

CONFORME INSTRUÇÕES CONTIDAS NO MANUAL DE MANUTENÇÃO DA PRATT & WHITNEY, REFERENTES AO MODELO DE MOTOR PW545B E COM A VERIFICAÇÃO DOS REGISTROS DE MANUTENÇÃO, PODEMOS CONCLUIR QUE OS MOTORES LH – S/N PCE-DD0160 e RH – S/N PCE-DD0164, INSTALADOS ATUALMENTE NA AERONAVE PP-RST, **ESTÃO DEVIDAMENTE PRESERVADOS**.

Jundiaí

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06. ANEXOS

ANEXO 1 – PW545B MAINTENANCE MANUAL P/N 30J2242 – CHAPTER 72-00-00 ENGINE, GENERAL - SERVICING

ANEXO 2 – REGISTROS OS 81606 E OS 97706

ANEXO 3 – BOROSCÓPIO MOTORES – OS 84328 E OS 94322

Jundiaí

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ANEXO 1

PW545B MAINTENANCE MANUAL P/N 30J2242 – CHAPTER 72-00-00 ENGINE, GENERAL - SERVICING

Jundiaí

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Engine Model(s): PW500 72-00-00

ENGINE, GENERAL - SERVICING

1. <u>General</u>

- A. This section contains the servicing procedures applicable to the PW545B engine. The procedures are sub-divided to cover four main topics: Oil System Servicing, Preparation for Service or Storage, Preservation/Depreservation and Removal/Installation from/in Maintenance Stand.
- B. Oil system servicing involves oil level checks, replenishing, draining, flushing and refilling.
- C. Preparation of the engine for service or storage involves removal or installation of the engine from its shipping container. Preservation/depreservation covers protection of the engine and the engine oil and fuel systems.

2. Consumable Materials

The consumable materials listed below are used in the following procedures.

| ltem No. | Name |
|------------|---------------------------|
| PWC03-001 | Engine Oil |
| PWC05-077 | Oil, Preservative |
| PWC05-372 | Dye, Liquid, (Blue) |
| PWC06-004 | Compound, Anti-seize |
| PWC09-003 | Silicone Grease |
| PWC09-004 | Sealant, (White) Silicone |
| PWC15-011 | Inhibitor, Rust |
| PWC15-011A | Inhibitor, Rust |

3. Special Tools

The special tools listed below are used in the following procedures.

| Tool No. | Name |
|----------|---------|
| PWC60988 | Sling |
| PWC66103 | Puller |
| PWC66106 | Sling |
| PWC66303 | Bracket |
| PWC66304 | Bracket |

| Tool No. | Name |
|------------------|---|
| PWC67000 | Stand |
| PWC67298, Rev. B | Front Packaging Post |
| PWC67299 | Rear Packaging Post |
| PWC67425 | Rear Bypass Duct Engine Lifting Bracket |
| PWC67553 | Stand |
| PWC67560 | Oil Pan, Build Stand |
| PWC67585 | Oil Pan, Build Stand |
| PWC67629 | Upper Support Bracket |

4. Fixtures, Equipment and Supplier Tools

Not Applicable

5. <u>Oil System Servicing</u>

CAUTION: DURING ALL OIL SYSTEM SERVICING, MAKE SURE EQUIPMENT AND CONTAINERS USED ARE ABSOLUTELY CLEAN. TAKE CARE TO PREVENT INGRESS OF ANY MATTER THAT COULD CAUSE CONTAMINATION.

A. Lubricating Oil

- (1) Refer to 72-00-00, DESCRIPTION AND OPERATION.
- (2) In cases where oils approved by P&WC are not available and other oils have to be substituted, an operator must obtain prior approval or recommendations for use of such oil from:

P&WC Customer First Center

Pratt & Whitney Canada

1000 Marie-Victorin Blvd.

Longueuil, Quebec

Canada J4G 1A1

B. Oil Level Check

CAUTION: DO NOT ADD OIL ABOVE "MAX" ON THE SIGHT-GLASS, BECAUSE A LARGE QUANTITY OF OIL VAPOR CAN BE LOST DURING ENGINE RUNNING. IF THE OIL LEVEL IS ABOVE "MAX", DRAIN SOME OIL BEFORE STARTING THE ENGINE.

NOTE: 1. P&WC does not recommend the casual mixing of different brands or types of oil. If oil mixing is necessary, refer to 72-00-00, DESCRIPTION AND OPERATION and ENGINE - SERVICING (Ref. Para. G.).

- **NOTE**: 2. If possible, check the oil level after 10 minutes and within 20 minutes of engine shutdown, refer to the hot check procedure (Ref. Step (1) below). This will reduce the possibility of overfilling, due to oil expansion at operating temperature or oil transfer to the AGB during periods of inactivity, and will also give more accurate oil consumption data. If the oil level check is not possible within 20 minutes, do the cold check procedure (Ref. Step (2) below). If no oil level is visible, do the no oil visible procedure (Ref. Step (3) below).
- **NOTE**: 3. If external oil leakage or high oil consumption is suspected, troubleshoot and repair (Ref. 72-00-00, FAULT ISOLATION) before adding oil.
- **NOTE**: 4. Engine oil level should be maintained between the MIN and MAX indication.
- (1) Hot Check: To check the oil level after 10 minutes and within 20 minutes after engine shutdown, proceed as follows:
 - (a) Check the oil level in the sight glass (outboard).

NOTE: Oil level check must be carried out horizontally with the sight glass during hot check.

- (b) If the oil level is above "MIN" no action is required.
- (c) If the oil level is below "MIN" and excessive oil consumption is suspected, troubleshoot and repair as necessary (Ref. 72-00-00, ENGINE, GENERAL FAULT ISOLATION).
- (d) To add oil proceed as follows:
 - **NOTE**: When you add oil, it is recommended to use an applicable filling device such as a funnel or fluid servicing cart with applicable attachment. Any spilled oil in the cowling or along the engine must be cleaned before you complete the task.
 - 1 Unlock and remove the filler cap from the filler neck.
 - <u>2</u> Add the necessary quantity of approved oil to the oil tank.
 - <u>3</u> Install the filler cap in the filler neck. Make sure the cap is correctly installed and locked securely.
 - 4 If necessary, clean spilled oil from the engine.
- (2) Cold Check: To check the oil level more than 20 minutes after engine shutdown, proceed as follows:
 - (a) Allow engine to cool down.
 - (b) Check the oil level in the sight glass (outboard).

NOTE: Oil level check must be carried out horizontally with the sight glass during cold check.

- (c) If the oil level is above "MIN" no action is required.
- (d) If the oil level is below "MIN" do an engine dry motoring cycle (Ref. 71-00-00, POWER PLANT ADJUSTMENT/TEST) or a run cycle as shown below:
 - 1 Motoring Cycle: Perform a 15 to 20 second dry motoring cycle to return the oil that

could have transferred into the AGB from the oil tank. Observe starter limits (Ref. Aircraft Flight Manual). Check the oil level in the sight-glass and proceed as follows:

- <u>a</u> If the oil level is above "MIN" no action is necessary.
- <u>b</u> If the oil level is below "MIN" and excessive oil consumption is suspected, troubleshoot and repair as necessary (Ref. 72-00-00, ENGINE, GENERAL - FAULT ISOLATION). Otherwise service the engine between the "MIN" and "MAX" indication.
- <u>2</u> Run Cycle: Alternatively, start the engine (Ref. Aircraft Flight Manual) and run at idle or above until the oil temperature reaches the nominal operating temperature. If operation above idle is required to reach the nominal oil temperature, reduce power to idle for a minimum of two minutes before shutting the engine down to stabilize the engine temperature. Check the oil level, refer to the hot check procedure (1) above.
- (3) No Oil Visible: If oil level is not visible in the sight glass and/or the aircraft has not been used for an extended period, proceed as follows:
 - (a) Check for external leakage and repair as necessary.
 - (b) Fill oil tank to the "MIN" level mark on the sight glass and dry motor the engine for 30 seconds. This will return oil that has been drained into the AGB back to the oil tank.
 - (c) Check the oil level in 10 to 20 minutes after shutdown (this is to let the oil settle in the oil tank).
 - (d) If the oil level is above "MIN" no action is required.
 - (e) If the oil level is below the "MIN" mark, further investigation is necessary. Do an inspection for oil leaks and correct as necessary. If no leaks are found, replace the oil pump seal (Ref. 79-20-02, OIL PUMP MAINTENANCE PRACTICES).

C. Oil Servicing Record

Figure 301 Record of Oil Servicing

| DATE (mm/dd/yy) | OIL QTY. ADDED | ENGINE HOURS | CONSUMPTION RATE |
|-----------------|----------------|--------------|------------------|
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CALCULATION FORMULA: QUANTITY OF OIL ADDED IN CC'S / BY NUMBER OF ENGINE OPERATING HOURS SAMPLE OIL CONSUMPTION CALCULATION: 1000 CC'S / 10 HOURS = 100 CC'S PER HOUR

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- (1) The oil servicing record can be used to calculate oil consumption rates for monitoring and/or troubleshooting purposes.
- (2) Monitor the oil consumption and record the quantity of oil added in the table (Ref. Fig. 301).
- (3) Use the data and the formula available (Ref. Fig. 301) to calculate the oil consumption of the engine. Make sure that the oil consumption is in the limits (Ref. 05-10-00, OPERATING LIMITS AND LEADING PARTICULARS).
- (4) If oil consumption is more than the limits, refer to Chapter 72-00-00, ENGINE, GENERAL FAULT ISOLATION, High Oil Consumption chart.
- D. Oil System Drainage (Ref. Fig. 302)

Figure 302 Oil System Drainage

(SHEET 1 OF 2)







VIEW A



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(SHEET 2 OF 2)



DETAIL D

POST-SB30413

icn-00198-g000019871-001-01

- 1. Preformed Packing
- 2. Cover
- 3. Washer
- 4. Nut
- 5. Nut
- 6. Washer
- 7. Cover
- 8. Preformed Packing
- 9. Bolt
- 10. Washer
- 11. Elbow Tube (Post-SB30413)
- 12. Preformed Packing (Post-SB30413)
- 13. Transfer Tube (Post-SB30413)
- 14. Preformed Packing (Post-SB30413)

- (1) Drain the oil system as follows:
 - (a) Place suitable containers or drip pan under engine.
 - (b) Remove oil filler cap.
 - (c) Remove two nuts (5) and washers (6) and remove the oil tank drain cover (7) from the bottom of the accessory gearbox using puller (PWC66103). Discard preformed packing (8).
 - (d) Remove two nuts (4) and washers (3) and remove the oil filter drain cover (2) using puller (PWC66103). Discard preformed packing (1).
 - (e) Post-SB30413:
 - 1 Remove two bolts (9) and the two washers (10) that attach the elbow tube (11) to the intermediate case.
 - 2 Pull the elbow tube (11) to remove it from the intermediate case.
 - <u>3</u> Remove the transfer tube (13) from the elbow tube (11). Remove and discard the preformed packings (14).
 - <u>4</u> Remove and discard the preformed packing (12) from the elbow tube (11).
- E. Oil System Filling (Ref. Fig. 302)
 - (1) Refill Oil System as follows:
 - (a) Lubricate and install new preformed packing (8) on the oil tank drain cover (7).
 - (b) Apply anti-seize compound to threads of studs and install oil tank drain cover (7), two nuts (4) and washers (3).
 - (c) Torque nuts 23 to 26 lb.in. (2.6-2.9 Nm).
 - (d) Lubricate and install new preformed packing (1) on the oil filter drain cover (2).
 - (e) Apply anti-seize compound to threads of studs and install oil filter drain cover, two nuts (4) and washers (3).
 - (f) Torque nuts 23 to 26 lb.in. (2.6-2.9 Nm).
 - (g) Replace oil filter element, if necessary (Ref. 79-20-01).
 - (h) Post-SB30413:
 - 1 Lubricate and install the new preformed packing (12) on the elbow tube (11).
 - 2 Lubricate and install the two new preformed packings (14) on the transfer tube (13).
 - <u>3</u> Install the elbow tube (11) with the transfer tube (13) on the intermediate case with the two bolts (9) and the two washers (10). Torque the bolts 27 to 30 lbf.in. (3.1 3.3 Nm).
 - (i) Fill the oil tank again with engine oil (PWC03-001) between the "MIN" and "MAX" indication.
 - (j) Install filler cap in filler neck. Make sure cap is correctly installed and locked.
 - (k) Do a dry motoring run (Ref. 71-00-00, POWER PLANT ADJUSTMENT/TEST).

- (I) Do a check for oil level (Ref. Para. 5. B.).
- (m) Perform engine run at ground idle for 15 minutes (Ref. 71-00-00, ADJUSTMENT/TEST).
- (n) Check for oil leaks.
- (o) Check oil level (Ref. Para. B.).
- F. Oil System Flushing
 - **NOTE**: If an engine oil system has been contaminated by other than metallic matter, the oil system must be flushed.
 - (1) Drain engine oil (Ref. Para. D.).
 - (2) Refill oil system (Ref. Para. E.).
 - (3) Do a 10 to 20 second dry motoring cycle (Ref. 71-00-00, POWER PLANT ADJUSTMENT/TEST).
 - (4) Check the oil level again and adjust as necessary. You must keep the oil level between the "MIN" and "MAX" indication.
 - (5) Perform engine run at stabilized idle for 5 minutes.
 - (6) Shutdown the engine (Ref. 71-00-00, ADJUSTMENT/TEST) and repeat Steps (1) to (5).
- G. Replacement of Oil with a different Approved Brand
 - (1) When switching to another approved brand of the same oil type (Ref. 72-00-00, Engine General Description and Operation), proceed as follows:
 - (a) Add new oil as required (top off).

NOTE: Oil need not to be drained and engine need not be flushed.

- (2) If oils of different viscosities or if non approved oils become mixed, do the steps that follow:
 - (a) Do a visual check of the oil filter.
 - (b) Do a second visual check of the oil filter at the next line check or max. 50 flight hours as follows.
 - 1 Drain the complete oil system (Ref. Para. D.).
 - <u>2</u> Refill with clean oil with the approved oil type (Ref. 72-00-00, Engine General Description and Operation).
 - (c) If large quantities of carbon deposits are found (i.e. loose carbon deposits covering most of the oil filter surface and the inside cavity of the filter), continue as follows:
 - 1 Drain the complete oil system (Ref. Para. C.).
 - 2 Refill with clean oil of the original approved oil type. (Ref. Para. D.).
 - <u>3</u> Install a new oil filter.
 - <u>4</u> Do an engine run at stabilized idle for five minutes.

- 5 Shutdown the engine.
- <u>6</u> Do a visual check of the oil filter. If the oil filter is contaminated contact P&WC or if the filter is clean continue with Step 7.
- 7 Drain the complete oil system (Ref. Para. D.). Refill with clean oil of the original approved oil type (Ref. 72-00-00, Engine General Description and Operation).
- <u>8</u> Install a new oil filter.
- <u>9</u> Do an engine run at stabilized idle for five minutes.
- <u>10</u> Do a visual check of the oil filter at the next line check or max. 50 flight hours.
- <u>11</u> Contact P&WC if large quantities of carbon deposits are still found.
- (3) Operators wishing to monitor oil quality, it is recommended that a program be established in collaboration with the operator's oil supplier.
- H. Use of SOAP Analysis
 - (1) While PWC recognizes the value of SOAP analysis as a trending tool for monitoring oil system health, its use is not endorsed and remains the responsibility of the operator in determining appropriate intervals and guidelines.
- I. Blue Oil Dye
 - (1) Blue oil dye (PWC05-372) can be added to any P&WC approved lubricating oil on a one-time basis when you fill the oil system. The dye improves the sight glass visibility and helps in the detection of oil leaks.
 - (2) Use 0.122 0.171 milliliters per liter, or 0.462 0.647 milliliters per U.S. gallon of oil. The maximum concentration must not be more than 0.171 milliliters per liter, or 0.647 milliliters per U.S. gallon.
 - (3) The dye is blue in color but when mixed with some oils which are yellow in color, the result can be green colored oil.
- J. Oil Analysis
 - (1) TAN Test:

NOTE: Engine TAN test sampling and inspection is recommended if visual inspection of oil shows very dark oil and/or has an unusual odor.

- (a) Before you take an oil sample for analysis, start and operate the engine until oil temperature is 70° C (158° F) minimum (Ref. 71-00-00, POWER PLANT -ADJUSTMENT/TEST). Shut down the engine (Ref. 71-00-00, POWER PLANT -ADJUSTMENT/TEST).
- (b) If the Total Acid Number (TAN) is more than 2.0, or water content is more than 1000 parts per million by weight or by volume, do the steps that follow:
 - 1 Drain and discard oil from the oil tank (Ref. Para. 5.D.).
 - <u>2</u> Fill the oil tank with new oil again (Ref. Para. 5.E.).
 - **NOTE**: 1. The value of TAN in the new oil agrees with specification changes as per

the brand and manufacturer.

- **NOTE**: 2. As the oil becomes deteriorated, the color becomes black and the oil can possibly release strong harsh odor. This is not a reason to change the oil, but do an analysis of the oil.
- **NOTE**: 3. Use a Titra-Lube TAN Test Kit (P/N TI-TAN) to do analysis of the oil. The kit is available in the below address or contact a local distributor for availability of the kit:

Dexsil Chemical Corp, 1 Hamden Park Drive, Hamden, CT06517 USA TEL: 1-800-4-DEXSIL 03-288-3509 FAX: 203-248-6523

(2) **P&WC's Oil Analysis Technology**:

- **NOTE**: 1. P&WC's oil analysis technology is an optional task and the operator can take decision to do it.
- **NOTE**: 2. P&WC's oil analysis technology is complementary to oil filter/chip analysis, it is not replacing it. You can do the oil filter debris and chip analysis in any independent laboratory approved by P&WC per SIL GEN-123. Do chip/filter analysis during scheduled maintenance (filter and chip inspection) or in an unscheduled maintenance activity.
- **NOTE**: 3. Refer to SIL GEN-153 to order P&WC's oil analysis technology sampling kit(s).
- **NOTE**: 4. Before you get an oil sample, operate the engine at IDLE until you get a stable oil temperature. Shut down the engine.
- **NOTE**: 5. If it is not possible to operate the engine at IDLE, it is acceptable to get a sample in 15 to 30 minutes of engine shutdown.
- (a) Recommended Interval
 - 1 It is recommended to do this procedure by the operator as soon as practicable after you receive the first oil sampling kit and during scheduled maintenance thereafter, with a recommended frequency of two times per year. The procedure can be done in conjunction with the scheduled oil system maintenance or at the aircraft minor inspection interval. If necessary, P&WC can recommend a different sampling frequency for a specific engine. In the case of a planned or unplanned engine removal, take an oil sample before removal if possible.

WARNING: OIL TEMPERATURE IS SUFFICIENTLY HIGH TO CAUSE BURNS TO SKIN EXPOSED TO THE OIL. PUT ON PROTECTIVE CLOTHING AND GLOVES.

(b) Procedure

- **NOTE**: 1. Make sure that the area is clean to prevent contamination of the engine oil system and the oil sample. Make sure that the container and tooling are free of debris and contaminants.
- **NOTE**: 2. Do not add material from the chip detector magnet to the oil sample.
- **NOTE**: 3. Do not use the oil sample bottle to collect the first 60 cc of oil from the drain. This will prevent contamination of the final oil sample.
- 1 Open the engine cowlings as necessary (Ref. AMM).
- 2 Remove the engine chip detector. Remove and discard the two preformed packings (Ref. 79-30-01, CHIP DETECTION MAINTENANCE PRACTICES).

CAUTION: DO NOT PUSH THE SPRING-VALVE TOO FAR.

- <u>3</u> Push the spring-valve open with a clean and non-magnetic tool such as a flat-face pin punch to drain the oil.
- <u>4</u> Drain 60 cc of oil from the spring-valve before you collect the oil sample to make sure that the oil comes from the tank.
- 5 Collect oil into the clear bottle given in the oil sampling kit and fill it to 90% of total volume or a minimum of 60 cc.
- <u>6</u> Install the chip detector with the two new preformed packings (Ref. 79-30-01, CHIP DETECTION MAINTENANCE PRACTICES).
- 7 Fill the oil tank with fresh oil (Ref. Para. 5.E.).
- <u>8</u> Identify the clear bottle label sticker with the applicable sample information.
- <u>9</u> Fill the oil analysis sampling form given in the kit with the sample information.

NOTE: Use one form per engine sample.

- <u>10</u> Put the oil sample bottle and the oil analysis sampling form separately into the two given plastic bags and seal them.
- <u>11</u> Send the oil sample to laboratory at the address that follows:

GASTOPS P&WC Oil Analysis Technology 146A Glencoe Dr., Mount Pearl, NL Canada, A1N 4S9

12 Close the engine cowlings as necessary (Ref. AMM).

6. Preparation for Storage and Service

- A. Shipping Container Description
 - (1) The fiberboard shipping container consists of a wooden skid base, to which is secured a metal cradle. The container is intended for domestic shipment in a closed conveyance on

the North American continent or for overseas shipment by air. It is not intended for shipment by sea.

- (2) The container is weather resistant only and should not be exposed to climatic conditions for more than seven days. It must not be used for outdoor storage. The shipping container offers protection against corrosion for a period of up to six months, provided that the container is correctly sealed and sheltered indoors in relatively dry area and the color of the humidity indicator is monitored every 15 days.
- (3) To maintain internal conditions within the protective envelope, at a safe humidity level for storage, twelve bags of desiccant material are placed in the protective envelope. Each desiccant bag contains eight units (one unit equals one ounce). A humidity indicator is installed within the protective envelope and is visible through a window in the fiberboard casing. The moisture level can thus be checked without disturbing the container or its contents. At a safe humidity level (up to 40 percent relative humidity) the indicator color is blue. As humidity increases, the color gradually changes to pink. An all pink color indicates that an unsafe moisture condition has been reached; the desiccant must then be replaced with freshly activated bags.

| DESCRIPTION | DATA |
|------------------|-------------------|
| Length | 90 in. (229 cm.) |
| Width | 44 in. (112 cm.) |
| Height | 55 in. (140 cm.) |
| Weight (approx.) | 500 lb. (230 kg.) |

Table 301 Shipping Container Data

B. Precautions

- (1) When an engine is to be removed from or installed in a shipping container, the following precautions must be taken.
 - (a) Make sure that a hoist of sufficient lifting capacity, plus safety factor, is available to lift loads as follows:
 - <u>1</u> PW545B Engine a load of 900 lb. when lifting engine only and a load of 1300 lb. when lifting engine encased in container.
 - <u>2</u> Make sure that container or engine is positioned correctly on floor, directly beneath hoist.
 - <u>3</u> Make sure that free overhead space of at least seven feet is available, exclusive of distance from top of container or engine to hook.
- C. Removal of Engine from Shipping Container (Ref. Fig. 303 and 304)

CAUTION: IF ENGINE IS DROPPED, RETURN ENGINE TO AN APPROVED OVERHAUL FACILITY FOR INSPECTION/REPAIR IN ACCORDANCE WITH THE OVERHAUL MANUAL.

- (1) Cut and remove strapping (1, Fig. 303) and 24 corners (6) from around engine shipping container (10). Remove the envelope (8) containing shipping instructions from the container sleeve. Remove cover (2) and sleeve (3) from skid base assembly (4).
- (2) Cut protective envelope (5) and expose top of engine. Remove the bagged preservation tag lockwired to the bypass duct flange.

CAUTION: NEVER USE ENGINE SLING AND LIFTING BRACKETS TO LIFT AN ENGINE WHICH HAS ITS CRADLE STILL ATTACHED TO THE SHOCK MOUNTS.

- (3) Apply engine oil (PWC03-001) to threads of seven bolts. Install the rear engine lifting bracket (PWC67425). Secure with seven bolts, washers and nuts. Torque 36 to 40 lb.in. (4.1-4.5 Nm). Attach sling (PWC66106) to lifting brackets (3 locations). Support engine with hoist.
- (4) Remove eight bolts and washers, and two mount pad covers from upper left and right front mount pad locations.
- (5) Remove four bags of desiccant (25, Sheet 1, Fig. 304) from the upper part and both sides of the engine. Retain to reactivate as required.
- (6) Loosen and remove two clevises/rod ends (13, Fig. 303) and two turnbuckles/clevises/rod ends (14) securing the engine at the cradle rear mount brackets (12) and skid base assembly (4).
- (7) Loosen and remove eight bolts, the two front engine mount brackets and the protective envelope (5) from the engine.

CAUTION: WHEN ENGINE IS RAISED FROM THE CRADLE, BE CAREFUL TO AVOID DAMAGING THE OIL LEVEL SIGHT GLASS AND P3 AIR TUBE.

CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF SHIPPING CONTAINER WHEN LIFTING ENGINE.

- (8) Raise engine slightly, remove two quick release pins, and the front mount support brackets. Raise engine clear of the cradle and skid base assembly.
- (9) Install engine in front packaging post (PWC67298 Rev. B., refer to Tool Service Bulletin PW500-9) and rear packaging post (PWC67299), as necessary.
- (10) Remove seven bolts, washers, nuts, and the rear engine lifting bracket (PWC67425). Detach the sling (PWC66106) from the three lifting brackets.
- (11) Remove engine log book, log sheets, rear heat shield, and any other relevant documentation stored in shipping container storage box (9, Fig. 303).
- (12) Loosen and remove two clevises/rod ends (13) and two turnbuckles/clevises/rod ends (14) from the rear engine shipping container bracket (11).
- (13) Remove 17 bolts, washers, nuts and the exhaust duct shipping cover (4, Sheet 1, Fig. 304)
- (14) Remove bypass duct protective cushioning wrap (8).

NOTE: Do not drag cushioning wrap over the bypass duct.

- (15) Remove six bolts, washers, nuts and the nose cone shipping cover (1).
- (16) Remove nine bolts, washers, nuts and the rear engine shipping container bracket and plate (11, Fig. 303).
- (17) Check that the metering orifice at the bleed servo valve is correctly lockwired.
- (18) Check that the fuel control lever and rod are correctly connected with a bolt locked with a cotter pin. Also check that the bellcrank assembly pivot bolt is locked with a cotter pin. Remove the tie wrap (23, Sheet 1, Fig. 304) passing through the bellcrank thrust reverser and throttle levers.
- (19) Remove the bypass accelerometer bracket and shipping plug. Apply engine oil to bolt threads, reinstall the bracket and secure with two bolts and nuts. Torque the bolts 36 to 40 lb.in. (4.1-4.5 Nm).
- (20) Remove six washers and nuts and two bypass bleed cooling air cover (3, Sheets 1 and 2).
- (21) Remove ten washers and two compressor cabin bleed covers (2).
- (22) Remove two nuts, washers, the shipping gasket and cover from the fuel control inlet port (9, Sheet 2), and the shipping caps from the fuel pump drive drain (10), the flow divider valve drainage port (12), and the ground base support connection.
- (23) Remove the two protective plugs from the fuel flowmeter spacer (18), two electrical shipping caps from the ignition exciter (5, Sheet 1) and the electrical dust cap and tie wrap from the wiring harness airframe connector (7 and 23, Sheet 2).
- (24) Remove four nuts, washers and the hydraulic pump drive pad cover (21).
- (25) Remove six nuts, washers and the alternator drive pad cover (20), and the shipping cap at the alternator drain (19).
- (26) Remove four nuts, washers and the starter generator cover (16).
- (27) Remove the shipping cap from the starter generator drain seal (17), the two caps from the high and low pressure connection (14 and 15), the cap from the chip collector (18) and the threaded plug (6, Sheet 1) from the main oil temperature boss.
- (28) Remove any remaining shipping covers, plugs and caps, as necessary (Ref. Fig. 304).

Figure 303 Engine Shipping Container



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- 1. Steel Strapping and Seals
- 2. Shipping Container Cover
- 3. Shipping Container Sleeve
- 4. Skid Base Assembly
- 5. Plastic Envelope
- 6. Corner
- 7. Humidity Indicator Window
- 8. Shipping Container Instruction Envelope
- 9. Document Storage Box
- 10. Engine Shipping Container
- 11. Rear Engine Shipping Container Bracket and Plate
- 12. Cradle Rear Mount Bracket
- 13. Clevis/Rod End
- 14. Turnbuckle/Clevis/Rod End

Figure 304 Engine Shipping Covers, Caps and Plugs

(SHEET 1 OF 2)





DETAIL A

c65687

(SHEET 2 OF 2)


- 1. Nose Cone Cover
- 2. Compressor Cabin Bleed Cover
- 3. Bypass Air (Starter and Alternator Cooling) Cover
- 4. Exhaust Duct Shipping Cover
- 5. Ignition Exciter Electrical Input Caps
- 6. Main Oil Temperature Cap
- 7. Electrical Dust Cap
- 8. Bypass Duct Protective Cushioning Wrap
- 9. Fuel Pump Main Supply Inlet Cover
- 10. Fuel Control Seal Drain Cap
- 11. Motive Flow Attachment Cover
- 12. Flow Divider Valve Cap
- 13. Fuel Flowmeter Spacer and Plug
- 14. High Pressure Connector Cap (For Differential Pressure Gauge)
- 15. Low Pressure Connector Cap (For Differential Pressure Gauge)
- 16. Starter Generator Cover
- 17. Starter Generator Seal Drain Cap
- 18. Chip Collector Cap (Optional Chip Detector Only)
- 19. Alternator Drain Cap
- 20. Alternator Drive Pad Cover
- 21. Hydraulic Pump Drive Pad Cover
- 22. Rear Fuel Drain Cap
- 23. Double Headed Tiedown Strap
- 24. AGB Retaining Plate
- 25. Desiccant

- D. Reactivation of Desiccant and Humidity Indicator
 - Place bags of desiccant and humidity indicator in a suitable oven controlled at 121°C (250°F). The humidity indicator may be removed when an all blue color has been attained. The desiccant bags should remain in the oven for two hours minimum.
 - (2) Allow oven to cool to room temperature (approximately 22°C (72°F)) and then remove bags and indicator as applicable.
 - (3) Immediately place desiccant bags in airtight polyethylene envelopes. Exclude all air and heat-seal envelopes.

NOTE: Desiccant bags must be removed from polyethylene bags prior to installation in shipping/storage container.

E. Installation of Engine in Shipping Container (Ref. Fig. 303 and 304)

CAUTION: MAKE SURE THAT OIL HAS BEEN COMPLETELY DRAINED FROM THE ENGINE.

- (1) Make sure that the shipping container (10, Fig. 303) is serviceable.
- (2) Install shipping caps at the high and low pressure connections (14 and 15, Sheet 2, Fig. 304), at the starter generator seal drain (17), at the chip collector (18), and install a threaded shipping plug (6, Sheet 1) in the main oil temperature boss.
- (3) Apply anti-seize compound (PWC06-004) to stud threads and install the starter generator cover (16, Sheet 2) and secure using four washers and nuts. Torque nuts handtight.
- (4) Apply anti-seize compound to stud threads and install the alternator drive pad cover (20) and secure using six nuts and washers. Torque nuts handtight. Also install a shipping cap at the alternator drain (19).
- (5) Apply anti-seize compound to nut threads and install the hydraulic pump drive pad cover (21) and secure using four washers and nuts. Torque nuts handtight.
- (6) Install two electrical shipping caps (5, Sheet 1) at the ignition exciter and an electrical dust cap (7, Sheet 2) at the wiring harness airframe connector. Secure the loose wiring harness cable with tiedown strapping (23). Trim excess strapping.
- (7) Install an electrical shipping cap at the ground base support connection.
- (8) Check that the fuel shut off cable is correctly routed and secured, jam nuts are torqued and lockwired, and the lead seal is still intact.
- (9) Apply white silicone grease (PWC09-004) to the flight idle adjusting screw, if necessary.
- (10) Check that the fuel control lever and rod are correctly connected with a bolt locked by a cotter pin, the bellcrank assembly pivot bolt is locked with a cotter pin, and secure the bellcrank levers by aligning the thrust reverser lever with the throttle lever and passing a tie wrap (23, Sheet 1, Fig. 304) through the lever eyes. Secure the tie wrap and trim excess.
- (11) Check that the metering orifice at the bleed servo valve is correctly lockwired.
- (12) Install fuel flowmeter spacer (13, Sheet 2) with two protective plugs, torque to secure and lockwire.
- (13) Install shipping cap at the flow divider valve (12) drainage port.

- (14) Install a shipping gasket and cover over the fuel control inlet port (9). Apply engine oil (PWC03-001) to threads of two nuts and secure with two nuts and washers. Torque handtight. Install a shipping cap over the fuel pump drive drain (10).
- (15) Install two compressor cabin bleed covers (2, Sheets 1 and 2). Secure each cabin bleed cover with five nuts. Torque nuts handtight.
- (16) Install two bypass bleed cooling air covers (3). Apply engine oil (PWC03-001) to threads of six nuts. Secure each bypass bleed cooling air cover with three washers and nuts. Torque handtight.
- (17) Install the bypass accelerometer shipping plug and bracket. Apply engine oil (PWC03-001) to bolt threads and secure with two bolts and nuts. Torque bolts 36 to 40 lb.in. (4.1-4.5 Nm).
- (18) Install retaining plate (24, Sheet 2) on the lower right side of the AGB using four screws. Torque screws 9 to 11 lb.in. (1.0-1.2 Nm).
- (19) Apply the oil base corrosion preventive compound to the fan case/intermediate case flange and to the intermediate case/bypass duct flange. Complete coverage is required with a maximum overspray of 0.300 inch (7.6 mm) permitted. Attach eight bags of desiccant, four each side, along the bottom of the engine.

NOTE: Do not attach desiccant bags to the wiring harness.

(20) Install the rear engine shipping container bracket (11, Fig. 303) and plate. Secure with nine washers, bolts and nuts. Torque bolts 32 to 36 lb.in. (3.6-4.1 Nm).

NOTE: Assemble washers under bolt heads first, then bracket, engine flange and plate follow.

(21) Apply engine oil (PWC03-001) to threads of six bolts. Install nose cone shipping cover (1, Sheet 1) and secure with six bolts, washers and nuts. Torque bolts until cover is secured.

NOTE: Assemble washers under nuts.

(22) Install rear engine lifting bracket (PWC67425) at the exhaust flange. Apply engine oil (PWC03-001) to threads of seven bolts. Secure the bracket with seven bolts, washers and nuts. Torque 36 to 40 lb.in. (4.1-4.5 Nm). Attach sling (PWC66106) to engine lifting brackets (3 locations).

CAUTION: DO NOT USE STANDARD COMMERCIAL HARDWARE TO SECURE ENGINE SUPPORT BRACKETS TO ENGINE OR CONTAINER. USE OF HARDWARE OF LOWER STRENGTH THAN SPECIFIED COULD CAUSE SERIOUS ENGINE DAMAGE DURING SHIPPING.

- (23) Refer to Subpara. B. for hoist capacities.
- (24) Fit the protective envelope (5, Fig. 303) around the base of the engine and hold in place by installing the front engine mount brackets. Secure the brackets using four bolts for each bracket. Torque bolts 275 to 300 lb.in. (31.1–33.9 Nm.) and lockwire.
- (25) Place engine log book, log sheets and other relevant papers to be shipped with engine, in a waterproof envelope and seal with pressure sensitive tape. Place two P3 air cover gaskets and two cooling air tube gaskets in two packaging envelopes and seal with tape. Place the

waterproof envelope, the packaging envelopes, the rear heat shield wrapped in cushioning material and a white binder, in the document storage box (9) and seal with tape. Secure the sealed box with tape to the floor at the rear of the skid.

CAUTION: WHEN ENGINE IS LOWERED INTO THE CRADLE, BE CAREFUL TO AVOID DAMAGING THE OIL LEVEL SIGHT GLASS AND P3 AIR TUBE.

- (26) Apply engine oil (PWC03-001) to threads of two bolts. Secure the front engine mount brackets with the cradle left and right front mount brackets with a bolt, washer and nut on each side. Torque the bolts to 450 to 500 lb.in. (50.8-56.5 Nm).
- (27) Apply engine oil (PWC03-001) to threads of four screws. Fit the protective envelope (5, Fig. 303) between the cradle frame and the cradle rear mount brackets (12). Secure the brackets to the frame using four washers and screws. Torque screws 250 to 270 lb.in. (28.2-30.5 Nm).
- (28) Apply engine oil on the threads of two clevises/rod ends. Adjust the linkages of each clevis to equal amounts of thread and secure the clevises/rod ends with lock nuts torqued at 32 to 36 lb.in. (3.6-4.1 Nm). Install a clevis/rod end (13) on each side of the rear engine shipping container bracket (11) using two shoulder screws, washers and nuts. Assemble the clevis/rod end to the cradle rear mount brackets (12) using two shoulder screws, washers and nuts. Torque the four screws 40 to 50 lb.in. (4.5-5.6 Nm).
- (29) Adjust the linkages of two turnbuckles/clevis/rod ends to equal amounts of thread on each end leaving the lock nuts loose.
- (30) Install the two turnbuckles/clevis/rod ends (14) to the cradle frame using two shoulder bolts, spacers, washers and nuts. Torque the shoulder bolts 115 to 130 lb.in. (13.0-14.7 Nm).
 - **NOTE**: 1. Make sure the engine envelope (5) is assembled between the spacer and cradle frame.

NOTE: 2. Make sure the envelope gasket does not rotate during the torquing process.

- (31) Connect the turnbuckle/rod ends to the rear engine shipping container bracket (11) with two shoulder bolts, spacers, washers and nuts. Torque shoulder bolts 115 to 130 lb.in. (13.0–14.7 Nm).
- (32) Tighten the turnbuckle until the clevis is in tension to 5 lb.in. (0.6 Nm). Torque the lock nuts 135 to 150 lb.in. (15.2–17.0 Nm).
- (33) Remove engine sling (PWC66106) and rear engine lifting bracket (PWC67425).
- (34) Apply engine oil (PWC03-001) to threads of 12 bolts. Install the exhaust duct shipping cover (4, Sheet 1, Fig. 304) with heat shields, if required. Secure the exhaust cover with 12 bolts, washers and nuts at the airframe mounting brackets. Torque the bolts handtight. Apply engine oil to threads of two bolts. Secure the cover with two bolts, washers and nuts at the shipping container mounting bracket. Torque the bolts 32 to 36 lb.in. (3.6-4.1 Nm). Apply engine oil to threads of three bolts. Finally, secure the exhaust duct cover onto the engine with three bolts, washers and nuts torqued handtight.

NOTE: Assemble washers under nuts.

(35) Wrap the engine bypass duct with cushioning material (8). Secure with tape.

NOTE: Do not drag cushioning material over the bypass duct.

(36) Tie four bags of desiccant (25) evenly distributed along the upper part, on both sides of the engine.

NOTE: Do not attach desiccant to the wiring harness.

(37) Prior to the installation of the mount pad covers, apply a thin coat of silicone grease (PWC09-003) to the contact faces of the covers. Install the covers at the upper left and upper right mount pad locations. Apply engine oil (PWC03-001) to the threads of eight bolts. Secure the covers with eight bolts and washers. Torque bolts 36 to 40 lb.in. (4.1-4.5 Nm).

NOTE: Shipping covers are installed with the part number identification facing outboard.

- (38) Install all other required shipping covers, plugs and caps, as necessary (Ref. Fig. 304).
- (39) Install humidity indicator in shipping container. Torque handtight.
- (40) Place preservation tag into a plastic bag and seal. Secure the bag to the rear packaging cover using tape, with the preservation tag facing upwards and further secure the bag with lockwire to the bypass duct flange.
- (41) Encase the remainder of the engine with the protective envelope (5, Fig. 303). Evacuate and heat seal the engine envelope, folding it neatly to make sure the humidity indicator visibility through the container window. Secure the envelope with tape.
- (42) Lower shipping container box over the engine using sling (PWC60988), making sure the outer sleeve cutout aligns with the humidity indicator window (7). Place fiberboard sleeve and cover in position on skid base assembly. Secure cover flaps with pressure sensitive tape at corners.
- (43) Stencil engine model number, serial number, and pertinent preservation and inspection dates on both ends of the container.

<u>NOTE</u>: Use the following abbreviations for the inspection/preservation dates: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

- (44) Attach an envelope containing shipping instructions (8) on the shipping container using tape. Attach to the container, with the engine serial number visible.
- (45) Strap container to skid base assembly with six sets of 3/4 inch steel strapping (1). Fit 24 corners (6), as applicable.

7. Preservation/Depreservation

- **NOTE**: 1. The following preservation and depreservation requirements are highly recommended. The non-compliance to these procedures for a subject engine requires a review of circumstances and engine condition by P&WC prior to returning engine in service. Depending on circumstances, recommendations aimed at ensuring serviceability of the engine, may range from a field-level workscope to an engine shop visit. Furthermore, over and above any shop related charges, the development of a customized workscope may be charged to the operator by P&WC.
- **NOTE**: 2. The review of circumstances will require the operator to provide a letter or other document to the Customer First Centre containing the following information for each

engine:

- Customer and/or Operator Name.
- Engine Type and S/N.
- Engine TTSN / TCSN.
- Average Daily Usage (ADU) prior to engine preservation.
- Geographical area where the engine has operated before preservation.
- Type of preservation schedule (if any).
- Atmospheric conditions in which the engine was stored (air temperature, relative humidity).
- Details on how the engine was preserved or if was not preserved at all.
- Elapsed time after engine preservation limit.
- Any other information susceptible of determining the condition of the engine.

A. Preservation

- (1) Regular operation as alternative to preservation of inactive engines:
 - (a) For engines installed on aircraft, running the engine once a week is an acceptable alternative to avoid the preservation procedures outlined below. This prevents stagnation of fuel in the fuel system, reduces humidity and condensation accumulation in the oil system.
 - 1 Do a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (Example: TO - 5% N1) and ending with five minutes at idle. Check for oil leaks and oil consumption and correct as necessary. Make sure oil temperature reaches 70°C (158°F) minimum.
 - (b) For engines installed on aircraft, running the engine every 28 days for periods of six months or more will require the following maintenance activities prior to return to active service.
 - 1 Do a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (Example: T0 - 5% N1) and ending with five minutes at idle. Check for oil leaks and oil consumption and correct as necessary. Make sure oil temperature reaches 70°C (158°F) minimum.
 - 2 Install covers as per 1 to 7 days requirements.
 - 3 Preserve as per 8 to 28 days requirements.
- (2) The following engine preservation schedule lists procedures to be followed (Ref. Table 302):

| C | AUTION: UNDER NO CIRCUMSTANCES SHOULD PRESERVATIVE OIL BE SPRAYED INTO COMPRESSOR OR TURBINE ENDS OF ENGINES. DIRT PARTICLES DEPOSITED ON BLADES AND VANES COULD ADHERE AND ALTER THE AIRFOIL SHAPE, ADVERSELY AFFECTING ENGINE EFFICIENCY. |
|-----|--|
| (a) | 1 to 7 days - Engines can be left in an inactive state, with no preservation protection, provided engine is sheltered, humidity is not excessively high and engine is not subjected to extreme temperature changes which would produce condensation. Standard engine covers installed to prevent too much windmilling, ingress of foreign objects, water and ice. |
| (b) | 8 to 28 days - Engine inactive for up to 28 days, require no preservation provided all engine openings are sealed off and relative humidity in engine is maintained at less than 40 percent. Humidity control is maintained by placing desiccant bags and humidity indicator on wooden racks in engine exhaust duct. Suitable windows must be provided in exhaust closure to facilitate observation of humidity indicators. Make sure that the desiccant bags do not touch the engine components. The cowl drain hole must not be clogged. |
| (c) | 29 to 90 days - Engine inactive for a period exceeding 28 days, but less than 90 days, need to have fuel system preserved (Ref. Step (3) following), in addition to Steps (2)(a) and (2)(b). |
| (d) | 91 days and over – Engines inactive over 90 days in airframe or removed for long term storage in container, must, in addition to Steps (2)(a), (2)(b) and (2)(c), have engine oil drained. Remove cover plates from unused accessory drive pads and spray exposed surfaces and gearshafts with engine oil (PWC03-001). Replace cover plates. In addition, apply rust inhibitor (PWC15-011) or (PWC15-011A) to intermediate case and AGB external flanges including engine mount locations. |
| (e) | Engines removed for long term storage in a container also must be stored as per Para. |

| (0 | f Engines removed for long term storage in a container also must be stored as p |
|----|---|
| | 6. above and recorded in log book. Containers must be stored indoors. |

| Duration (Days) | Install Engine Covers or Seal Engine (Ref. Note 1) | Maintain Relative Humidity | Preserve Fuel System | Drain Oil (Ref. Note 2) | Apply Oil to AGB & Intercase (Ref. Note 2) | De- Salination Wash (Ref. Note 4) |
|--------------------|---|----------------------------------|----------------------------|-------------------------------------|---|--|
| 1-7 Days | Covers | No | No | No | No | No |
| 8 - 28 Days | Sealed | Yes | No | No | No | No |
| 29 - 90 Days | Sealed | Yes | Yes | No | No | Yes |
| 91 Days | Sealed | Yes | Yes | Yes | Yes | Yes |

Table 302 Preservation Schedule

| Duration (Days) and over | Install Engine Covers or Seal Engine (Ref. Note 1) | Maintain Relative Humidity | Preserve Fuel System | Drain Oil (Ref. Note 2) | Apply Oil to AGB & Intercase (Ref. Note 2) | De- Salination Wash (Ref. Note 4) | | |
|--------------------------------|--|--|----------------------------|-------------------------------------|---|--|--|--|
| NOTE : 1. | The cowl drain hole | The cowl drain hole must not be clogged. | | | | | | |
| <u>NOTE</u> : 2. | Refer to Para. 7. A. S | Refer to Para. 7. A. Step (2)(d). | | | | | | |
| <u>NOTE</u> : 3. | If humidity is below 40%, a desalination wash is recommended but not required. | | | | | | | |
| <u>NOTE</u> : 4. | Applicable if engine subsequently washe | has been e d. | xposed to a | salt lade | n environment and | d not | | |

(3) Carry out preservation of engine fuel system (engine inactive for more than 28 days) as follows:

CAUTION: EXTREME CARE MUST BE TAKEN TO PREVENT FOREIGN MATERIAL FROM BEING DRAWN INTO ENGINE FUEL SYSTEM. EQUIPMENT MUST BE SUPPLIED WITH SUITABLE FILTERS NO COARSER THAN 10 MICRON RATING.

- (a) Close airframe fuel supply and disconnect fuel inlet supply to fuel pump.
- (b) Disconnect motive flow fuel line at junction downstream of flow divider valve and FCU. This is to prevent preservation oil from being pumped into the aircraft motive flow system.
- (c) Disconnect fuel lines to manifold at flow divider valve.
- (d) Connect corrosion preservative oil supply line to fuel pump inlet.
- (e) Fill with preservative oil (PWC05-077) at a pressure of 5 to 25 psig (34.47 172.36 kPa) and at a minimum temperature of 16 °C (60.8 °F).

CAUTION: OBSERVE STARTER MOTOR OPERATING LIMITS.

- (f) Perform a 30 second wet motoring run (Ref. 71-00-00, ADJUSTMENT/TEST). Make sure that preserving oil is flowing from fuel lines into waste container. Repeat, if necessary.
- (g) Turn off preserving oil supply.
- (h) Drain preserving oil from fuel filter housing by removing drain plug at bottom of housing.
- (i) Install new preformed packing on drain plug and install drain plug in fuel filter housing (Ref. 73-10-06).
- (j) Disconnect and remove all flushing oil supply and reconnect all disconnected fuel lines.
- (k) Install all plugs, caps and covers, as required, to prevent entry of foreign material and

accumulation of moisture.

- (I) Check for external preserving oil leaks.
- (m) Tag engine and power control lever in aircraft cabin, as applicable, with a warning prohibiting cranking of engine and include date of preservation of engine.
- B. Depreservation

CAUTION: P&WC HAS REMOVED APPROVAL FOR THE USE OF THIRD GENERATION (TYPE II HTS) LUBRICANTS. P&WC RECOMMENDS SWITCHING TO THE USE OF AN APPROVED LUBRICANT.

- (1) Depreservation Schedule
 - (a) 1 to 7 days No depreservation required.
 - (b) 8 to 28 days Desiccant and moisture barriers must be removed. Ensure that all previously sealed engine openings are reopened and are unobstructed.
 - (c) 29 to 90 days Remove engine intake and exhaust covers together with desiccant and humidity indicators. Depreserve engine fuel system.
 - (d) 91 days and over Engine must be completely depreserved and lubrication system serviced.
- (2) Depreservation Procedure
 - (a) For engines preserved for 91 days and over, replace the following AGB seals if third generation oil was previously used (Ref. 72-00-00, ENGINE GENERAL DESCRIPTION AND OPERATION).
 - <u>1</u> Hydraulic Pump Gearshaft Seal (Ref. 72-60-01, ACCESSORY GEARBOX MAINTENANCE PRACTICES).
 - <u>2</u> Pre-SB30364 only: Fuel Control Gearshaft Seal (Ref. 72-60-01, ACCESSORY GEARBOX - MAINTENANCE PRACTICES).
 - <u>3</u> Pre-SB30364 only: Accessory Drive Gearshaft Rear Seal (Ref. 72-60-01, ACCESSORY GEARBOX MAINTENANCE PRACTICES).
 - <u>4</u> Pre-SB30245 only: Accessory Drive Gearshaft Front Seal (Ref. 72-60-01, ACCESSORY GEARBOX MAINTENANCE PRACTICES).
 - 5 Pre-SB30240 only: Accessory Drive Gearshaft Front Seal (Ref. 72-60-01, ACCESSORY GEARBOX MAINTENANCE PRACTICES).
 - (b) Replace oil filter (Ref. 79-20-01, OIL FILTER MAINTENANCE PRACTICES).
 - (c) Replace fuel filter (Ref. 73-10-05, FUEL FILTER MAINTENANCE PRACTICES).
 - (d) Sump aircraft fuel tanks for the presence of water (Ref. AMM).
 - (e) Do a desalination wash (Ref. 71-00-00, POWER PLANT CLEANING).
 - (f) Fill engine oil tank with approved oil.

NOTE: The lubricating oil system does not require any depreservation procedures.

- (g) Disconnect the primary and secondary fuel lines at the FDV.
- (h) Install a suitable flexible line at both the primary and secondary outlets from the FDV and insert the other end of the flexible lines into an open waste container.
- (i) Connect airframe fuel supply to fuel pump inlet.

CAUTION: OBSERVE STARTER MOTOR OPERATING LIMITS.

- (j) Perform a 30 second wet motoring run (Ref. 71-00-00, ADJUSTMENT/TEST) and ensure clean airframe supplied fuel is flowing from both fuel lines. Repeat, if necessary.
- (k) Install new preformed packings on fuel lines and install on fuel dump valve.
- Perform a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (ex: T0-5% N1) and ending with five minutes at idle. Verify for oil leaks and oil consumption and correct as necessary.
- C. Regular Operation for Depreservation Requirements of Inactive Engines
 - (1) For engines installed on aircraft, running the engine once a week is an acceptable alternative to avoid the preservation procedures outlined above. This prevents stagnation of fuel in the fuel system, reduces humidity and condensation accumulation in the oil system. Depreservation requirements are not necessary.
 - (2) For engines installed on aircraft, running the engine every 28 days for periods of six months or more will require the following maintenance activities prior to return to active service.
 - (a) Depreservation procedure outlined in Para. 7. B. (2) above.
 - (b) Service engine per Para. 5. above.
 - (c) Perform a dry motoring run, verify for oil leaks and correct as necessary.
 - (d) Perform a 30 minute engine run, starting with five minutes at idle, followed by five minutes at take-off, 15 minutes at an intermediate power setting (ex: T0-5% N1) and ending with five minutes at idle. Verify for oil leaks and oil consumption and correct as necessary.

8. Installation/Removal on/from Maintenance Stand

A. Installation of Engine on Maintenance Stand (Ref. Fig. 305)

Figure 305 Engine on Maintenance Stand (Typical)



c95935

- 1. Maintenance Stand (PWC67000) or (PWC67553)
- 2. Lower Support Bracket (PWC66304)
- 3. Upper Support Bracket (PWC66303) or (PWC67629)
- 4. Bolt
- 5. Bolt
- 6. Bolt
- 7. Bolt

(1) Make sure stand wheels are locked.

CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF ENGINE STAND WHEN LOWERING.

- (2) If necessary tilt the engine up or down to 20 degrees maximum.
- (3) Lift the engine using sling (PWC66106) and chain hoist and position on maintenance stand (1)(PWC67000) or (PWC67553).

NOTE: Bolts (6 and 7) on support brackets (2) and (3) must be finger tight.

- (4) Install lower support bracket (2) (PWC66304) using four bolts (4). Tighten finger tight.
- (5) Install upper support bracket (3) (PWC66303) or (PWC67629) using four bolts (5). Tighten finger tight.
- (6) Install oil pans (PWC67560) and (PWC67585) using bolts. Tighten finger tight.
- (7) Torque bolts (4, 5, 6 and 7) 275 to 300 lb.in. (31-33 Nm).
- (8) Remove the sling.
- B. Removal of Engine from Maintenance Stand (Ref. Fig. 305)
 - (1) Install sling (PWC66106) and chain hoist on the engine and take up the weight.

CAUTION: DO NOT ALLOW ENGINE TO CONTACT ANY PART OF ENGINE STAND WHEN RAISING.

(2) Remove four bolts (4) from lower support bracket (PWC66304) and 4 bolts (5) from upper support bracket (PWC66303) or (PWC67629) and remove the engine.

9. Configuration of Engine for LH or RH Installation

- **NOTE**: Left Hand or Right Hand installation of the engine on the aircraft may require relocation of the following hardware.
- A. Wiring Harness
 - (1) Relocate wiring harness in accordance with Removal/Installation procedure (Ref. 73-20-02 MAINTENANCE PRACTICES).
- B. EEC
 - (1) Relocate EEC in accordance with Removal/Installation procedure (Ref. 73-20-03 MAINTENANCE PRACTICES).
- C. Oil Filler Cap and Adapter
 - (1) Relocate oil filler cap and adapter in accordance with Removal/Installation procedure (Ref. 79-30-03 MAINTENANCE PRACTICES).
- D. Oil Filler Pressure Cap
 - (1) Relocate oil filler pressure cap in accordance with Removal/Installation procedure (Ref. 79-30-03 MAINTENANCE PRACTICES).

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E. Engine Rear Mount Bracket

(1) Relocate the engine rear mount bracket in accordance with Removal/Installation procedure (Ref. 72-70-01 MAINTENANCE PRACTICES).





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ANEXO 2

REGISTROS OS 81606 OS 97706

Jundiaí

Av. Emilio Antonon, s/nº Lote 1234 - Chácara Aeroporto 13212-010 - Jundiaí, SP Tel.: 55 11 4589.5500

Rio de Janeiro

Aerop. Santos Dumont, Balcão 20021-340 - Rio de Janeiro. RJ Tel.: 55 21 2220.4660

Brasília

Aerop. Internacional de Brasília Setor de Hangares L 29/30 71608-900 - Brasília, DF Tel.: 55 61 3365.1234

Belo Horizonte - Pátio Norte

Aeroporto da Pampulha Rua dos Hangares, 49 31710-410 - Belo Horizonte, MG Tel.: 55 31 3497.3888 Fax: 55 31 3427.8227

OS 81606 - 06/NOV/2015 - MOTOR LH - PCE-DD0160

| | | | NUMED | DE SÉRIE: PC | 000160 |
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| | | Maintenance Transaction Rec | Page 1 of 1 | CAMP Systems International sono E 34TH STREET | ABILIDADE |
| | | This Maintenance Report is To Be Used Sc | ely For (Check One) | BUILDING 1600, SUITE 1607 Wichita, KS 67226 | OTN ATTUDA |
| CESCOM | Airframe Entries | ☑ Eng. #1 Serial No. PCE-DD0160 Serial No. | Serial No | Phone: 316-462-2267/ Fax: 316-462-0791 | INSPETOR |
| | | Aircraft Identification and Status | tal Hrs Engine 2. Total Hrs Engine 1. Ttl Cycles Engin | APU Hrs APU Events Freon Hrs 1040 A51.8 1,322 | |
| A/C Serial # A/C Unit | # A/C Registration # Date Ci | ty ID Total A/C Hours 10427700 0 BJD 2280.9 1676 2280 | 9 2280.9 1649 | | |
| 560-5579 5579 | Compo | nent Changes, Inspections, Service Bulletins, or Anworth | Mod Removal Level Part Serial Reason | Installed Part Material Main Status TSN/TSO/TSR Costs Hours | |
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| 057158 3 2 Commen 751030 4 2 | NO 1 ENGINE - MINOR INSPECTION Is: Performed Minor Inspection, I.A. W. E.M.M. NO. 1 ENGINE - REPLACE INTERCOMPE BLEED VALVE SERVO VALVE | , Pratt & Whitney PN 30./2242 Rev. 19. ESSOR arvo Valve, I A.W. P&WC SB 30420R4. Removed P/N 31 | 2857-04 S/N TR0407 Installed P/N 30J3490-01 S/N | TR7685 (New) - Form 8130-3 # | |
| 057159 3 2 Commen 751030 4 2 Commen 641275, | NO 1 ENGINE - MINOR INSPECTION Is: Performed Minor Inspection, I.A. W. E.M.M. NO. 1 ENGINE - REPLACE INTERCOMPE BLEED VALVE SERVO VALVE Is: Replaced Intercompressor Bleed Valve Sid dated May/12/2015, issued by Cessna Archa | Pratt & Whitney PN 30J2242 Nev. 19. ESSOR arvo Valve, I A.W. P&WC SB 30420R4 Removed P/N 31 tt Company YS AND OVER | 2857-04 S/N TR0407 Installed P/N 30J3490-01 S/N | ⊺R7685 (New) - Form 6130-3 # | |
| 057159 3 2 Commen 751030 4 2 Commen 641275, MISC 5 2 | NO 1 ENGINE - MINOR INSPECTION Is: Performed Minor Inspection, I.A. W E.M.N NO. 1 ENGINE - REPLACE INTERCOMPE BLEED VALVE SERVO VALVE Is: Replaced Intercompressor Bleed Valve S: dated May/12/2016, issued by Cessna Aircra NO. 1 ENGINE - PRESERVATION - 91 DA VS: Performed Engine Preservation for 91 Da | , Pratt & Whitney PN 30J2242 Nev. 19. ESSOR ervo Valve, I.A.W. P&WC SB 30420R4. Removed P/N 31 tt <u>Company</u> YS AND OVER ys and Over, I.A.W. E.M.M. Pratt & Whitney PN 30J2242 | 2857-04 S/N TR0407 Installed P/N 30J3490-01 S/N Rev. 19. Chapter 72-00-00 - Table 302. | 1R7685 (New) - Form 8130-3 # | |
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OS 81606 - 06/NOV/2015 - MOTOR RH - PCE-DD0164

| | 108 NÚMERO DE SÉRIE: PCE DD036 | <u>9</u> PAROS |
|---------|---|--------------------|
| C P/ | ADERNETA DE MOTOR Nº <u>OU</u> <u>MUSUOU</u> MINITERANCE TRANSACTION DE L'EXPLOYE MINITERANCE TRANSACTION RECORD MINITERANCE TRANSACTI | DADE URA TOR |
| | A/C Serial # A/C Registration # A/C Registration # A/C Registration # BBJ 2280.9 Concentration # Rescond Part Installed Part Material Material 560-5579 5579 PP-RST 0e-Nov-2015 SBJ0 2280.9 Concentration # Rescond Part # Removal Installed Part Material Material Image: Solution # Transaction Transaction Transaction Position Part Number / Alternate Part Mod Removal Installed Part Material Material 720040 1 No. 2 ENGINE - INSPECT FOR CORROSION THE BLEED VALVE SEAT ON THE INTERMEDIATE CASE FLANGES - USE BORESCOPE WHERE REQUIRED - USE REQUIRED - USE BORESCOPE WHERE REQUIRED - USE B | |
| | MINUE NO 2 ENGINE - INSPECTION LOW Utilization inspection, LA W E.M.M. Pratt & Whitney PN 300000000000000000000000000000000000 | |
| | Tares Type, 1-Component 2-Inspection, 3: 58, 4-AD, Mac. Renoval Reasons WO - Wunito Limits, 5C - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in Comments) Installed Part Status: N - New, R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - Oper(rotate in Comments) Installed Part Status: N - New, R - R - Regeled/Reault, S - Scheduled, UN - Lincerleduled, CO - Convertinitiet, N - | |

OS 97706 - 18/MAR/2019 - MOTOR LH - PCE-DD0160

COM Nº 6905-01/ANAC TAM AVIAÇÃO EXECUTIVA E TÁXI AEREO SA FAA QL4Y470M Aeroporto Cmte, Rolim A. Amaro - Jundiai/SP ANAC DA 1-B-239 COM N° 6905-01/ANAC 200 DGAC E-371 FAA QL4Y470M DINAC Nº 037E W.O. RECORD ANAC DA 1-B-239 97706 W.O. FORM - TM-026/03 PCE-DD0160 DGAC E-371 SERIAL NUMBER PW5458 OMAE Nº 037E MODEL: RECORD TYPE: ENGINE #1 AIRCRAFT IDENTIFICATION AND STATUS APU 84282 PROPELLER 2 W.O. N/A PROPELLER 1 MANUE N/A MANUE ENGINE 2 N/A N/A N/A MODEL ENGINE 1 MANUE. PRATT & WHITNEY MODEL MODEL MANUF N/A N/A EGISTRATION PRATT & WHITNEY N/A S/N MODEL NI/A MANUF. PW5458 560XI S/N N/A MANUF MODEL NI/A PW5458 TSN N/A S/N N/A MODEL PCE-DD0164 MANUF TSN MODEL N/A S/N PCE-DD0160 S/N NIA CSN TSN NI/A S/N TRON AVIATIO 2280.4 S/N 56-5579 TSN FREON HOURS COMPONENT CHANGES, INSPECTIONS, SERVICE BULLETINS, OR AIRWORTHINESS DIRECTIVES ACCOMPLISHED N/A TSN CSN TSN N/A 1678 CSN 2280.4 erformed LH Engine Preservation (more than 90 days since 18/Mar/2019). LA.W MM Pratt & Whithey 545B Chapter 72:00-00 Rev. 27 Jan.2019. 25 100 orfor 14/mar/2019 INITIAL DATE ANAC BR We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of: SBJD LOCATION: 18/mar/2019 We certify this ENGINE was inspected/repaired LA.W. above items and it was determined to be approved for return to service. END DATE: CÓD. ANAC - Nº 114259 CERTIFICATE: SAULO LISBOA VIEIRA MAINTENANCE INSPECTOR: Pertinent defails of this maintenance are on file at our facility under the above Work/Sonvice Order Number as applicable 21/dez/2016 We certify that the above stated m NITIAL DATE: SBJD We certify this ENGINE ANAC-BR We certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of LOCATION: 14/dez/201 END DATE We certify that ENGINE was inspected/repaired LA.W. above items and it was determined to be in airworthy condition. MAINTENANCE VLADILS INSPECTOR: CERTIFICATE: VLADILSON SALDANHA CARDOSO Pertinent details of this ma MAINTENANCE INSPECTOR: Pertinent details of this maintenance are on tile at our facility under the above Work/Service Order Number as applicable MA IN----Date 30-May-2016 Certificate No. COD. ANAC NO. 718304 Pertinent details of this maintenance are -Perfinent details of this maintenance are on file at our secarty under the above Work/Service Order Number as applicable. 48

OS 97706 - 18/MAR/2019 - MOTOR RH - PCE-DD0164







TAM Aviação Executiva e Táxi Aéreo S.A. Rua Monsenhor Antônio Pepe, nº 94 Jardim Aeroporto 04357-900 São Paulo - SP Brasil Tel: +55 11 2890.7800 | Fax: +55 11 2890.7856 Call Center Fretamento +55 11 4002.7000 Coordenação de Voo (24hs): +55 11 2890.7756 | 28980 7753 www.tamaviacaoexecutiva.com.br

ANEXO 3

BOROSCÓPIO MOTORES OS 84328 OS 94322

Jundiaí

Av. Emilio Antonon, s/nº Lote 1234 - Chácara Aeroporto 13212-010 - Jundiaí, SP Tel.: 55 11 4589.5500

Rio de Janeiro

Aerop. Santos Dumont, Balcão 20021-340 - Rio de Janeiro. RJ Tel.: 55 21 2220.4660

Brasília

Aerop. Internacional de Brasília Setor de Hangares L 29/30 71608-900 - Brasília, DF Tel.: 55 61 3365.1234

Belo Horizonte - Pátio Norte

Aeroporto da Pampulha Rua dos Hangares, 49 31710-410 - Belo Horizonte, MG Tel.: 55 31 3497.3888 Fax: 55 31 3427.8227





TM 15/02

| ORDE | M DE SERVIÇO (WORK ORDER) | PREFIXO (ACFT REG.) | DATA DE ENTRADA (DATE-IN) | DATA DE SAÍDA (DATE-OUT) | | | |
|--|---|--|--|--|--|--|--|
| | 83428 | PP-RST | 08/07/2016 | 13/07/16 | | | |
| | CÓDIGO (Code) : C06498 | | | - Jaco Har | | | |
| PRO | PRIETÁRIO (Acft. Owner) : | 20 | TAM DE 2016 | | | | |
| | ENDEREÇO (Address) : | 03 | TAIVI DE 2010 | | | | |
| | CIDADE (City) : | BO | ROSCÓPIO NOS | SMOTORES | | | |
| | CGC/CPF (Braz. Acft. Only) : | | | | | | |
| | TRIPULAÇÃO (Crew) : | | | | | | |
| L | OCAL - FONE (Local - Phone) : | | | | | | |
| | PREFIXO (Acft Reg. No.) : PP-RST | | ANV. HORAS (Acft. Total Hours): 22 | 11,70 | | | |
| | FABRICANTE (Manufacturer) : | | ANV. POUSOS (Acft. Landings): 16 | 72 | | | |
| | MODELO (Model) : 560 XL-XLS | т | OTAL COMBUSTÍVEL (Total Fuel): | | | | |
| | Nº SÉRIE (S/N): 560-5579 | | TIPO DE ÓLEO (Oil Type): | | | | |
| | Nº UNIDADE (Unit No.): 5579 | | | | | | |
| | MOTOR LH (ENGINE | LH) | MOTOR RH (E) | IGINE RH) | | | |
| | MODELO (Model): PW 5458 | | MODELO (Model) : PIUSY | FB . | | | |
| Nº S | ÉRIE (LH Eng. S/N): DCE - DDOI | 60 | Nº SÉRIE (RH Eng. S/N) : PCE .)DC | 0162. | | | |
| HOR | AS (LH Eng. Hours): 22 + ナ, ナン | | HORAS (RH Eng. Hours) 1 2 2 + + , 3 | 0 | | | |
| CICLO | DS (LH Eng. Cycles): 16 42 | c | ICLOS (RH Eng. Cycles) : 1/2 4 | | | | |
| St fait | HÉLICE LH (PROPELLE | R LH) | HÉLICE RH (PRO | PELLER RH) | | | |
| | MODELO (Model) : | | MODELO (Model) : | | | | |
| Nº S | ÉRIE (LH Eng. S/N) : | | № SÉRIE (RH Eng. S/N) : | | | | |
| HOR | AS (LH Eng. Hours) : | | HORAS (RH Eng. Hours) | | | | |
| O DETAU | SERVIÇOS | SOLICITADOS / EXECUTADOS (REQI | JESTED / ACCOMPLISHED SERVICES) | | | | |
| VIDE DISC | HAMENTO DOS SERVIÇOS ENCONTRAM-SE EM / | ANEXO, A SABER (SERVICES ARE DETAILE | D ON THE FOLLOWING ATTACHED FORMS): | | | | |
| NOTA: | APÓS A SAÍDA DA AERONAVE, ESTA O.S. SER RECEBIMENTO, FICHAS DE INSPEÇÃO, DISCR | Á ARQUIVADA ANEXANDO-SE TODOS OS R EPÂNCIAS REPORTADAS E ENCONTRADAS | EGISTROS DE SERVIÇOS QUE HOUVER DENT 5, BOLETINS, DA'S, LAUDOS DE OFICINAS, ETIO | RE OS SEGUINTES: INSPEÇÃO DE QUETAS DE AERONAVEGABILIDADE DOS | | | |
| NOTE : | After the aircraft leaves, this W.O. will be filed with | E SERVIÇOS ESPECIAIS OU MODIFICAÇOEs all of the following reports: receiving inspection, | Inspection cards, reported and found discrepancie | s, bulletins, AD's, shop technical reports, | | | |
| | Incorporated material/components airworthiness ta | gs and special work or modifications. | | 0.1 | | | |
| | INSPEÇÃO FRELIMINAR COMPLETADA (FIGINI | nary inspection Completed) | por (by) | NUt | | | |
| | INSPEÇÃO DE DANO OCULTO COMPLETADA (| Hidden Damage Inspection Completed) | por (by) | MA | | | |
| - | LIDERAGI | | | | | | |
| | LIBERAÇA | U DA AERONAVE PARA RETORNO AC | D SERVIÇO (MAINTENANCE RELEASE) | | | | |
| GERAL, R AERONÁL SEGUNDC In accorda and Is app | EPARO E/OU INSPEÇÃO DE ACORDO COM INST ITICA SOB OS QUAIS O OPERADOR ESTÁ HOMO D TAIS REQUISITOS. (The aircraft, airframe or ain ance with current instructions contained in the mi- proved for return to service, concerning the tasks | RUÇÕES ATUALIZADAS CONTIDAS NO MAI RUÇÕES ATUALIZADAS CONTIDAS NO MAI DLOGADO, E ESTÁ APROVADO(A) PARA RE craft engine identified above was maintained inufacture*s maintenance manual, in the ma performed in this W.O, as per those require ANAC - COM 66 FAA - | WAND TENCAD PREVENTIVA, RECONSTRUCAN NUAL DE MANUTENÇÃO DO FABRICANTE, NO ETORNO AO SERVIÇO, COM RESPEITO AS TAI I, preventively maintained, rebuilt, altered, mod intenance rules of the Federal Aviation Regula ments.) 905-01 | 7, ALI ERAÇÃO, MODIFICAÇÃO, REVISÃO S REGULAMENTOS DE HOMOLOGAÇÃO REFAS EXECUTADAS NESTA OS, lífied, overhauled, repaired and/or inspected tions under which the operator is certified | | | |
| | AdditADD FOR (digited by). | | 10 | | | | |
| | L | Outra (Other) | A | | | | |
| | | TAS | Vladils | on Saldanha Cardoso | | | |
| | | TAM AVIAÇÃO EXECUTIVA | E TÁXI AÉREO S.A. | Código ANAC: | | | |
| | | | AVIAÇÃO EX | nº 71830-4 | | | |
| | | | | | | | |
| | | APÓLICE DE SEGUROUNSI | | | | | |

Lamonda LANCADO CG2COM Allth



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A. CESSNA AUTHORIZED SERVICE CENTER

FICHA DE SERVIÇO (WORK SHEET)

TM 17/01

| | | FICHA DE SER | VIÇO(WORK SHEET | les en la segur | | | |
|--------------------|-------------------|--------------------------|----------------------|-------------------|-----------------------|--|--|
| ITEM(ITEM) | OS(W.O.) | PREFIXO(ACFT. REG) | SN | INÍCIO(DATE IN) | TÉRMINO (DATE OUT) | | |
| 1 | 83428 | PP-RST | 560-5579 | 08/07/2016 | 08/2/2016 | | |
| and the second | | SERVIÇO (SEI | RVICE REQUESTED) | | 199 | | |
| EFETUAR INSPEÇÃO E | 30ROSCOPICA NOS M | 10TORES | | | | | |
| | | SERVIÇO EXECUTADO | (SERVICE ACCOMPLISE | IED) | | | |
| EFETUADO INSPEÇÃO | BOROSCÓPICA EM | ABOS OS MOTORES CONFORME | FICHA EM ANEXO. | | ann | | |
| | | MATERIA | | | | | |
| Children and | DESCRIÇÃO (DESC | | PN REMOVIDO (REMOVI | | | | |
| | | | | | | | |
| 11-12-24 | DESCRIÇÃO (DESCI | RIPTION) | PN INST. (INSTALLED |) QTD SN | INSTALADO (INSTALLED) | | |
| | | ASSINATURA E/OU CAR | IMBO, CONFORME APLI | CÁVEL | | | |
| | // | (SIGNATURE AND/O | R STAMP, AS APPLICAB | .E) | the second second | | |
| | MECÂNICO (MEC | HANIC) | | INSPETOR (INSPECT | ror) | | |
| | ally | | 057 | | | | |
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| -10 | TIN | |
| 1000 | NOR. NOR. NOR. MOR. | <i>bear</i> |
| | | |

FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR

Folha (Sheet) 1 de (of) 17

PW 545B

(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

TM 040

No. FT MT-03-06

| | | INFORMA | ÇÕES DA FI | CHA DE TRABAI | LHO | |
|---|-----------------------------------|--|--|---|---|--|
| NÚMER (SHEE | O DA FICHA | EMISSÃO OF (ORIGINAL I | RIGINAL: | REVISÃO: (REVISION): | D | ATA DA REVISÃO: (REVISION DATE): |
| M | T-03-06 | 01/Nov/2 (Nov 01,2 | 2006 | 14 | | 01/Dez/2015 (Dec 01,2015) |
| | -= | INFORMAC (TE | COES DA PUI | BLICAÇÃO TÉCI ICATION DATA) | NICA | |
| | DESCRIÇ (DESCRIPT | ÃO: on): | P/N: | EMISSÃO ORIGINAL: (ORIGINAL ISSUE:) | REVISÃO: (REVISION): | DATA DA REVISÃO: (REVISION DATE): |
| PWC Maint | enance Man | ual PW545B | 30J2242 | 12/Dez/2003 (Dec 12,2003) | 20.0 | 02/Nov/2015 (Nov 02,2015) |
| | - Andreas | REGISTRO DE (INSTRUCTI | REVISÃO D | A FICHA DE TRA | ABALHO | |
| REVISÃO (REVISION) | DATA (DATE) | | RAZÃO D (REVISIO | A REVISÃO | | RESPONSÁVEL (RESPONSABLE) |
| 09 | 26/Junho/13 (June 26,13) | Revisão da fich (Review th | Revisão da ficha de trabalho devido ao novo layout. Não houve alterações do procedimento. (Review the worksheet due new layout, No chave procedum) | | | |
| 10 | 14/Maio/14 (May 14,14) | Revisão da fic técnica. (Review the workshee | Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. (Review the worksheet due to revision of technical publishing. No chame procedure | | | |
| 11 | 21/Nov/14 (Nov21,14) | Revisão da fic técnica. (Review the workshee | Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | |
| 12 | 20/Maio/15 (<i>May20,15</i>) | Revisão da fic técnica. (Review the workshee | ha de trabalho Não houve alte | devido à revisão da erações do procedir technical publistura. N | a publicação mento. | José Carlos Batista |
| 13 | 27/Julho/15 (July27,15) | Revisão da fic técnica. (Review the workshee | ha de trabalho Não houve alte | devido à revisão da rações do procedir technical publishing. N | a publicação mento. | José Carlos Batista |
| 14 01/Dez/15 (Dec 01, 15) Revisão da fi técnica (Review the worksheet) | | Revisão da fic técnica. (Review the workshee | ha de trabalho Não houve alte et due to revision of | devido à revisão da rações do procedir fechnical publishing. No | a publicação mento. o change procedur | José Carlos Batista |
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| | | I | APROVA (APPROV | ÇÃO (AL) | A | |
| EMITIDO (ISSUED I | POR: R | odrigo Salvador Pico | lo Ass: (Signature) | : Reduigo XI | ude | Data: 01/Dez/2015 (Date): (Dec 01,2015) |
| APROVADO | D POR: D BY:) | José Carlos Batista | Ass: (Signature) | : telle | - | Data: 01/Dez/2015 (Date): (Dec 01.2015) |

| T/A | FICHA I | FICHA I (WC DE INSPEÇÃO | DE TRABALHO DRK SHEET) D BOROSCÓPICA DO PW 545B DN REPORT FOR ENGINE | MOTOR PW545B) | Folha (Sheet) 2 de (of) 17 |
|--|--|---------------------------------|---|-----------------------------|--|
| | | | TM 040 | | No. FT MT-03-06 |
| | | INFORMAÇÕES (COMPONEN | DO COMPONENTE | | A.C. |
| Descrição Con (Part Description) Razão da Inspe | eção: | | Part Number: (Part Number) WC 545B Removido da Posição: | Númer (Serial N (L-)) | o de Série: ^{Jumber}) 0 60 |
| Reason of Inspec | tion) V C CI | M/VA INFORMAÇÕE | (Removed from position) | LM | |
| Prefixo da Aero (Acft. Reg.) | onave: | (AIRCRAFT | INFORMATION) S/N Aeronave: (Aircraft S/N) | OXL-S | 5579 |
| | | ORDEM (WOR | DE SERVIÇO RK ORDER) | | |
| O.S. n°: (Work Order n°) | 83428 | , | Item n°: (Item n°) | | |
| ITEM (Item) | SE | RVIÇO A EXECU | ITAR | MEC (Mechai | nic) INSP |
| | | Equipamen | tos necessários | | |
| • Equipa (Borose | amento boroscópico cope equipment PWC33 | PWC37711 c 7711 or equivalen | ou equivalente. ^{t.)} | | |
| • Tubo (Guide | Guia PWC44026. Tube PWC44026) | | | | |
| • Puller (Puller) | PWC30128-6. PWC30128-6) | | | | |
| • Wrence (Wrence) | ch PWC67699 h PWC67699) | | | | |
| • Fan W (Fan W | /edges PWC66581. edges PWC66581) | | | | |
| | | | | | |

NOTA:

Somente pessoas habilitadas poderão utilizar este equipamento.

O equipamento boroscopico poderá se danificar caso seja submetido a altas temperaturas ou a quedas.Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.

(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to servere shocks. The fiberscope can be damaged if it is used after engine shutdown)

| 7 47 | FICHA DE INS | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA <u>PW 545B</u> NSPECTION REPORT FOR EN | | <u>TOR</u> 545B) | Folha (Sheet) 3 de (of) 17 | |
|-----------------------------|------------------|--|----|----------------------|-------------------------------|--|
| | | TM 040 | | | No. FT MT-03-06 | |
| O.S. nº: (Work Order nº) | 83428 | Item n°: (Item n°) | 51 | | | |
| ITEM (Item) | SERVIÇO (Work | A EXECUTAR to perform) | 1 | MEC (Mechanic) | INSP (Inspector) | |

| | Recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 71-00-00 antes de se efetuar a inspeção boroscópica. (It is recommended that a compressor wash be performed in accordance with MM PW545B, P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.) |
|----|--|
| 01 | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) |
| 02 | Remover o starter do motor conforme instruções do AMM da aeronave,capitulo 80. (Remove the starter motor in accordance with Aircraft Maintenance Manual, chapter 80) |
| 03 | Instalar a ferramenta PWC67699 no eixo da gearbox conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) |
| 04 | Remover o cover para inserir o equipamento boroscopico utilizando a ferramenta PWC30128-6 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00- 00 (Remove the cover using the puller PWC30128-6 to install the boroscope probe in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) |
| 05 | Inspecionar as palhetas do 1º estágio do compressor de alta pressão, conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade first-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |

| Ŧ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet) 4 de (of) 17 |
|----------------------|---|-------------------------------|
| | TM 040 | No. FT MT-03-06 |
| O.S. nº: Work Ord | der n°) 83428 Item n°: (Item n°) | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) MEC (Mechanic) |) INSP (Inspector) |
| 05 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Nenhum dano foi encontrado | 05 |
| 06 | Inspecionar as palhetas do 2º estágio do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade second-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | Transform |
| | (Damages description) NUMUM CANC - ei UNCONTAC Remover o Bleed Valve conforme o manual de Manutenção do | |
| 07 | Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Remove the Compressor Bleed Valve in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) | |
| 08 | Inspecionar o Impeller do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect HP Compressor Impeller in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the | |



| 72 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sh 6 de (of) | eet) 17 |
|---------------------|---|------------------------|-------------|
| | TM 040 | No. FT MT-03-0 | 06 |
| D.S. nº: Work Or | der n°) 83428 Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | C INS (Inspec | P ctor) |
| 13 | Remover o plug da caixa de ignição conforme conforme instruções do AMM da aeronave,capitulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | |] 05 |
| 14 | Remover o cabo de ignição conforme conforme instruções do AMM da aeronave,capitulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | THE REAL PROPERTY |] 05 |
| 15 | Remover a vela de ignição conforme conforme instruções de AMM da aeronave,capitulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74) | |)57 |
| 16 | PWC44026 conforme o manual de Manutenção do Motor PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capitulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | | |

| (BOROSCOPE INSPECTION | BOROSCÓPICA DO MOTO W 545B | <u>DR</u> | Folha (Sheet) 7 de (of) 17 |
|--|---|--|---|
| | TM 040 | | No. FT MT-03-06 |
| er nº) 83428 | Item n°: (Item n°) | * | |
| SERVIÇO A EXECUTA (Work to perform) | AR | MEC (Mechanic) | INSP (Inspector) |
| Inspecionar os Liners da Câmara de Cor ferramenta PN: PWC44026 conforme o r do Motor PW545B, P/N: 30J2242, capítu os danos e as dimensões na figura abaix (Inspect Combustion Chamber Liner using the to accordance with PW545B M.M P/N: 30J2242, ch the damages and dimensions at the picture below OUTER LINER OUTER LINER OUTER LINER COOLING RING LOUVER INNER LINER | mbustão utilizando a manual de Manutenção ilo 72-00-00, e registrar co. ol PN: PWC44026 in mapter 72-00-00, and record N.) PORT FIN BOSS FUEL NOZZLE BOSS FUEL NOZZLE BRACKET FUEL NOZZLE COLLAR R BSERVADOS | the | |
| Inspecionar a Vane da turbina de alta pre utilizando a ferramenta PN: PWC44026 o Manutenção do Motor PW545B, P/N: 30, 00, e registrar os danos e as dimensões (Inspect the First Stage HP Turbine Vane using th accordance with PW545B M.M, P/N: 30J2242, ch the damages and dimensions at the picture below | essão do 1º estágio conforme o manual de J2242, capítulo 72-00- na figura abaixo. he tool PN: PWC44026 in hapter 72-00-00, and record v.) | All and a second | |
| | (BOROSCOPE INSPECTION (BOROSCOPE INSPECTION (BOROSCOPE INSPECTION SERVIÇO A EXECUT. (Work to perform) Inspecionar os Liners da Câmara de Conferramenta PN: PWC44026 conforme o D do Motor PW545B, P/N: 30J2242, capítu os danos e as dimensions at fle picture below (Inspect Combustion Chamber Liner using the to accordance with PW545B M.M P/N: 30J2242, ch the damages and dimensions at the picture below (Inspect Combustion Chamber Liner using the to accordance with PW545B M.M P/N: 30J2242, ch the damages and dimensions at the picture below (Inspect Combustion Chamber Liner using the damages and dimensions at the picture below (Inspectionar a Vane da turbina de alta pro- utilizando a ferramenta PN: PWC44026 co Manutenção do Motor PW545B, P/N: 30J 00, e registrar os danos e as dimensioes (Inspect the First Stage HP Turbine Vane using t accordance with PW545B M.M, P/N: 30J2242, cl the damages and dimensions at the picture below | INV 3430 INSPECTION REPORT FOR ENGINE PWS4: TM 040 INSPECTION REPORT FOR ENGINE PWS4: TM 040 INSPECTION REPORT FOR ENGINE PWS4: (Item n°) SERVIÇO A EXECUTAR (Work to perform) Inspecionar os Liners da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, eregistrar os danos e as dimensões na figura abaixo. (Inspect Combustion Chamber Liner using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) OUTER LINER COULING RING (DUVER UNER SUPPORT PM BOSS (Damages description) MER UNER DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) MER UNER MER UNER DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) MER UNER MER UNER Inspecionar a Vane da turbina de alta pressão do 1º estágio de Manutenção do Motor PWS45B, P/N: 30J2242, capítulo 72-00- 00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Vane using the tool PN: PWC44026 in accordance with PWS45B, M.M. PAN: 30J2242, capítulo 72-00-00, and record the damages and dimensions at the picture below.) | IN 343D IN 040 Inter nº: (Item nº) SERVIÇO A EXECUTAR (Work to perform) MEC (Idechanic) SERVIÇO A EXECUTAR (Work to perform) MEC (Idechanic) Inspectionar os Liners da Câmara de Combustão utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, PN: 30J2242, capitulo 72-00-00, er egistrar os danos e as dimensões na figura abaixo. (Inspect Combustion Chamber Liner using the tool PN: PWC44026 in accordance with PW545B M.M PN: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) OUTERLINER OUTERLINER OUTERLINER OUTERLINER OUTERLINER DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) MER UNER DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) <tr< td=""></tr<> |

FICHA DE TRABALHO (WORK SHEET) Folha (Sheet) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR 8 de (of) 17 **PW 545B** (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) No. FT TM 040 MT-03-06 O.S. nº: Item nº: (Work Order nº) (Item n°) ITEM SERVICO A EXECUTAR MEC INSP (Item) (Work to perform) (Mechanic) (Inspector) LEADING EDGE TRAILING EDGE EDGE 0.100 18 INNER SHROUD 1400 (05) (cont) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Inspecionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) 19

| 774 | | FICHA DE I | FICHA DE TRABALHO (WORK SHEET) NSPEÇÃO BOROSCÓPICA <u>PW 545B</u> INSPECTION REPORT FOR ENG | DO MOTOR | Folha <i>(Sheet)</i> 9 de <i>(of)</i> 17 |
|-------------------------|--------|----------------------------------|---|-----------------|---|
| | | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Order | nº) 83 | 3428 | Item n°: (Item n°) | | |
| ITEM (Item) | | SERVIÇ (Wa | O A EXECUTAR ork to perform) | MEC (Mechani | ic) INSP (Inspector) |
| 19 (cont) | Nev | DESCRIÇÃO DOS (Damas MUM A | S DANOS OBSERVADOS ges description) Me Oi encanda | | 05; |

Inspecionar o Liner do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-

00, and record the damages and dimensions at the picture below.)

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DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) MCO

The second

| 72 | 977 | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) ISPEÇÃO BOROSCÓPICA E PW 545B INSPECTION REPORT FOR FING | DO MOTOR | Folha <i>(Sheet)</i> 10 de <i>(of)</i> 17 |
|---------------------|---|---|---|-------------------------|--|
| | | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: Work Or | der nº) 83 | 428 | Item n°: (Item n°) | | |
| ITEM (Item) | | SERVIÇO (Wor | D A EXECUTAR rk to perform) | MEC (Mechani | c) INSP (Inspector) |
| 21 | Inspecional Manual de capítulo 72 figura abaix (Inspect the S 545B M.M P/I dimensions a | r a Vane Ring do 2 Manutenção do me -00-00, e registrar (o. Second Stage LP Turbi N: 30J2242, chapter 7 t the picture below.) | P ^o estágio da turbina conforme otor PW545B, P/N: 30J2242, os danos e as dimensões na ine Vane Ring in accordance with P 2-00-00, and record the damages a OUTER SHR TRAILING EDGE INNER SHROUD DANOS OBSERVADOS es description MO fei Mcartía | e o PW ind oup | |
| 22 | manual de capítulo 72- figura abaix (Inspect the S M.M P/N: 30J dimensions at | Manutenção do Mo -00-00, e registrar co. Second Stage LP Turbi 2242, chapter 72-00-0 t the picture below.) | otor PW545B, P/N: 30J2242, os danos e as dimensões na ine Blades in accordance with PW5 00, and record the damages and | 45B | |

| The second | 9777 | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA <u>PW 545B</u> INSPECTION REPORT FOR FM | DO MOTOR | Folha (Sheet) 11 de (of) 17 |
|---------------------|---|--|--|-----------------------------|--------------------------------|
| | | 1 | TM 040 | | No. FT MT-03-06 |
| D.S. n°: Work Or | : der n°) | 428 | Item n°: | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR (to perform) | MEC (Mechar | inic) INSP |
| 22 (cont) | LEAD D Nev | NG EDGE | DANOS OBSERVADOS es description) | | |
| 23 | Inspecionar manual de M capítulo 72 figura abaixo (Inspect the Th M.M P/N: 30J2 dimensions at | a <i>Vane Ring</i> do 3º Manutenção do Mo 00-00, e registrar o 0. hird Stage LP Turbine 1242, chapter 72-00-00 the picture below) | estágio da turbina confor otor PW545B, P/N: 30J2242 os danos e as dimensões n Vane Ring in accordance with P 0, and record the damages and | ne o 2, 1a 9W 545B | Transferrenter (O |

| 7 64 7 | FI FICHA DE INS (BOROSCOPE IN | CHA DE TRABALHO (WORK SHEET) PEÇÃO BOROSCÓPICA DO <u>PW 545B</u> SPECTION REPORT FOR ENGINE | MOTOR PW545B) | Folha (Sheet) 12 de (of) 17 |
|-----------------------------|-------------------------------------|---|-------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 83428 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A (Work to | EXECUTAR perform) | MEC (Mechanic) | INSP (Inspector) |

| 23 (cont) | UTER SHROUD UTER SHROUD IEADING EDGE IEADING EDGE INNER SHROUD DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) AMMAM AMC EI ENCANTARE |
|--------------|--|
| 24 | Inspecionar a palheta do 3º estagio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Third Stage LP Turbine Blades in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |

| | FICHA DE INS | CHA DE TRABALHO (WORK SHEET) PEÇÃO BOROSCÓPICA DO <u>PW 545B</u> ISPECTION REPORT FOR ENGINE | MOTOR PW545B) | Folha (Sheet) 13 de (of) 17 |
|-----------------------------|----------------------|--|-------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Order nº) | 3428 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A (Work t | A EXECUTAR o perform) | MEC (Mechanic) | INSP (Inspector) |

| 24 (cont) | LEADING EDGE LEADING EDGE LEADING EDGE DESCRIÇÃO DOS DANOS OBSERVADOS (Daimages description) Munum dano da encantrada |
|--------------|---|
| 25 | Inspecionar a <i>Ring Vane</i> do 4° estágio da turbina conforme o PW 545B Manual de Manutenção P/N: 30J2242, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Ring Vane from Fourth Stage LP Turbine Vane in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |


| 25 (cont) | LEADING EDGE LEADING EDGE TRAILING EDGE TRAIL TRAILENG TR |
|--------------|--|
| 26 | Inspecionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |

| | FICHA DE INS | ICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA DO <u>PW 545B</u> NSPECTION REPORT FOR ENGIN | D MOTOR | Folha <i>(Sheet)</i> 15 de <i>(of)</i> 17 |
|-----------------------------|------------------|---|-------------------|--|
| | TM 040 | | | No. FT MT-03-06 |
| O.S. nº: (Work Order nº) | 82428 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO (Work | A EXECUTAR to perform) | MEC (Mechanic) | INSP (Inspector) |

| | OUTER SHROUD |
|--------------|--|
| 26 (cont) | LEADING EDGE TRAILING EDGE INNER SHROUD DESCRIÇÃO DOS DANOS OBSERVADOS |
| 27 | Inspecionar o mecanismo de corte de combustível conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Fuel Shut-off Mechanism in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) |

| 73 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545) | R B) | Folha (Sheet) 16 de (of) 17 |
|----------------------|--|--|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | der n°) 83928 Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) (/ | MEC Mechanic) | INSP (Inspector) |
| 27 (cont) | No BEARING NO BEA | Left and a second secon | |
| 28 | Inspecionar o Intermediate Case utilizando a ferramenta PN: PWC66581 conforme o manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B M.M, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Enconvinto Collosio Superficial Veve in Fevna mente flokimo Ac HIC yotol Conterme M.M.W&SYSB Jenhuma Acce se for neces- | | Term for |

| 7:2 77 | | FICHA DE IN | FICHA DE TRAE (WORK SHEE SPEÇÃO BOROSO PW 545B | BALHO | DTOR | Folha <i>(Sheet)</i> 17 de <i>(of)</i> 17 |
|----------------------|---|--|--|-------------------------------|-------------------|--|
| | | BOROSCOFE | TM 040 | FOR ENGINE FW | (3456) | No. FT MT-03-06 |
| O.S. nº: Work Ore | der n°) 83 | 428 | Item nº: (Item nº) | GAL | | |
| ITEM (Item) | | SERVIÇO | D A EXECUTAR rk to perform) | | MEC (Mechanic) | INSP (Inspector) |
| 29 | Remover a 6,PWC440 (Remove the installed befo | s ferramentas PW 26,PWC66581 ins Tooling PWC67699,P re) | C67699,PWC30128 taladas anteriormen WC30128-6,PWC44026 | - te. 5,PWC66581 | All | |
| 30 | Instalar o s AMM da ac (Install the sta chapter 80) Torque= | tarter removido do eronave,capitulo 80 arter motor in accordan b.in | item 02 conforme ir). nce with Aircraft Mainter | nstruções do nance Manual, | alle | Analysis and the |
| 31 | Instalar a v aeronave,c (Install the igi chapter 74) | ela de ignição con apitulo 74. niter plug in accordanc | forme instruções do ce with Aircraft Maintena | AMM da ance Manual, | Color | |
| 32 | Instalar o p AMM da ac (Install the plu Manual, chap | lug da caixa de ig eronave,capitulo 74 Ig on the exciter box i ter 74) | nição conforme inst 4. n accordance with Aircr | ruções do raft Maintenance | Jak . | Annelo EXEcutiva |
| 33 | Instalar o c aeronave,c (Install the igi Maintenance | abo de ignição cor apitulo 74. niter cable from exciter Manual, chapter 74) | nforme instruções do | AMM da | Alle | The second |
| | O compone (The part/airc Apro | ente/aeronave des raft described above i vado (Approved) | crito acima foi consid s:) | derado: | veq) | X |
| - | Observação | 0 (Remarks) [,] | | | | |



Assinatura e Carimbo do Inspetor (Inspector Signature and Stamp)

54/2016

Data (Date)

| T/Ski | | | FIC FICHA DE INSP | CHA DE (WORK EÇÃO BO PW PECTION F | TRABALHO (SHEET) DROSCÓPICA 545B REPORT FOR ENG | DO MOT | OR 45B) | Folha (Sheet) 1 de (of) 17 |
|---|-------------------------|-----------------|--|---|--|---|-------------------|---|
| | | | | τN | 1 040 | | | No. FT MT-03-06 |
| | | | INFORMAÇÕI | ES DA FIC | HA DE TRABAL | НО | | 8 8 |
| NÚMER (SHEE | O DA FICI | HA | EMISSÃO ORIGII (ORIGINAL ISSUE | NAL: | REVISÃO: (REVISION): | | DATA (RE | DA REVISÃO: VISION DATE): |
| M | Г-03-06 | adat | 01/Nov/2006 (Nov 01,2006) | | 14 | | 01 | 1/Dez/2015 Dec 01,2015) |
| | | -John Block | INFORMAÇÕE (TECHN | S DA PUE | BLICAÇÃO TÉCI CATION DATA) | NICA | | |
| | DESCR | RIÇÃO PTION) | : | P/N: | EMISSÃO ORIGINAL: (ORIGINAL ISSUE:) | REVISÃ (REVISIO) | O: N): | DATA DA REVISÃO: (REVISION DATE): |
| PWC Maint | enance M | anual | PW545B | 30J2242 | 12/Dez/2003 (Dec 12,2003) | 20.0 | | 02/Nov/2015 (Nov 02,2015) |
| | | | REGISTRO DE RE | VISÃO DA | FICHA DE TRA | BALHO | | |
| REVISÃO (REVISION) | DATA (DATE) | | | RAZÃO D | A REVISÃO N REASON) | | | RESPONSÁVEL (RESPONSABLE) |
| 09 | 26/Junho (June 26, | /13 13) | Revisão da ficha de al (Review the wo | e trabalho de terações do | evido ao novo layo procedimento. w layout. No change p | out. Não ho | uve | José Carlos Batista |
| 10 | 14/Maio/ (May 14, | 14 14) | Revisão da ficha o técnica. Não (Review the worksheet due | de trabalho b houve alte e to revision of | devido à revisão d rações do procedi technical publishing. N | a publicaçã mento. lo change pro | ão cedure | José Carlos Batista |
| 11 | 21/Nov/ (Nov21, 1 | 14 (4) | Revisão da ficha o técnica. Não Review the worksheet due | de trabalho houve alte to revision of | devido à revisão d rações do procedi technical publishing. N | a publicaçã mento. lo change pro | ão cedure | José Carlos Batista |
| 12 | 20/Maio/ (May20,1 | 15 (5) | Revisão da ficha o técnica. Não (Review the worksheet due | be trabalho houve alte to revision of | devido à revisão d rações do procedi technical publistung. N | a publicaçã mento. lo change pro | ão | Josė Carlos Batista |
| 13 | 27/Julho/ (July27, 1 | 15 5) | Revisão da ficha c técnica. Não Review the worksheet due Revisão da ficha c | houve alte | devido a revisao d rações do procedi technical publishing. N | a publicaça mento. <i>lo change pro</i> | ao cedure | José Carlos Batista |
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| | | | an a | APROVA (APPROV | ÇÃO (AL) | Λ | | |
| EMITIDO (ISSUED | POR: BY:) | Rod | rigo Salvador Picolo | Ass: (Signature) | : Rodingo D | Vielo | Dat (Dat | a: 01/Dez/2015 e): (Dec 01,2015) |
| APROVADO POR: (APPROVED BY:) J | | Jo | osé Carlos Batista | Ass: (Signature) | : Jeant | | Dat (Dat | a: 01/Dez/2015 e): (Dec 01,2015) |

| 7.4477 | FICH (FICHA DE INSPEC (BOROSCOPE INSPE | A DE TRABALHO WORK SHEET) AO BOROSCÓPICA DO M <u>PW 545B</u> CTION REPORT FOR ENGINE P | OTOR W545B) | Folha (Sheet) 2.de (of) 17 |
|--|---|---|--------------------------|-------------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| | INFORMAÇO (COMPO | DES DO COMPONENTE NENT INFORMATION) | | |
| Descrição Compone (Part Description) | nte: MGINP | Part Number: (Part Number) PW545B | Número d (Serial Numl | e Série: ^{ber)} 0164 |
| Razão da Inspeção: (Reason of Inspection) | RE COMPLA | Removido da Posição: (Removed from position) | H | |
| | | ÇÕES DA AERONAVE | | |
| Prefixo da Aeronave (Acft. Reg.) | · VI-KSF | S/N Aeronave: (Aircraft S/N) 560 | XL-55 | 79 |
| | ORDI (V | EM DE SERVIÇO VORK ORDER) | | |
| O.S. n°: (Work Order n°) | , 428 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A EXE (Work to perfe | ECUTAR prm) | MEC (Mechanic) | INSP (Inspector) |
| | Equipam | entos necessários | | |
| • Equipamen (Boroscope e | to boroscópico PWC3771 quipment PWC37711 or equiva | 1 ou equivalente. alent.) | | |
| • Tubo Guia (Guide Tube | PWC44026. <i>PWC44026)</i> | | | |
| Puller PWC (Puller PWC3) | 30128-6. 0128-6) | | | |
| Wrench PW (Wrench PWC) | /C67699 267699) | | | |
| • Fan Wedge (Fan Wedges | s PWC66581. <i>PWC66581)</i> | | | |
| | | NOTA | | |

NOTA:

Somente pessoas habilitadas poderão utilizar este equipamento.

O equipamento boroscopico poderá se danificar caso seja submetido a altas temperaturas ou a quedas.Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.

(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to servere shocks. The fiberscope can be damaged if it is used after engine shutdown)

| 7/4 | FICHA DE | FICHA DE TRABALHO (WORK SHEET) E INSPEÇÃO BOROSCÓPICA DO MOTO <u>PW 545B</u> PE INSPECTION REPORT FOR ENGINE PW543 | <u>DR</u> 5B) | Folha (Sheet) 3 de (of) 17 |
|-------------------------|-----------|--|-------------------|-------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Order | nº) 83928 | Item n°: (Item n°) | | |
| ITEM (Item) | SERV | VIÇO A EXECUTAR Work to perform) | MEC (Mechanic) | INSP (Inspector) |

| 01 | Recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do motor PW545B, P/N: 30J2242, capítulo 71-00-00 antes de se efetuar a inspeção boroscópica. (It is recommended that a compressor wash be performed in accordance with MM PW545B, P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.) |
|----|--|
| | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) |
| | |
| 02 | Remover o starter do motor conforme instruções do AMM da aeronave,capitulo 80. (Remove the starter motor in accordance with Aircraft Maintenance Manual, chapter 80) |
| 03 | Instalar a ferramenta PWC67699 no eixo da gearbox conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) |
| 04 | Remover o cover para inserir o equipamento boroscopico utilizando a ferramenta PWC30128-6 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00- 00 (Remove the cover using the puller PWC30128-6 to install the boroscope probe in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) |
| 05 | Inspecionar as palhetas do 1º estágio do compressor de alta pressão, conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade first-stage in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |

| 72 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet 4 de (of) 17 |
|-----------------------|--|------------------------------|
| | TM 040 | No. FT MT-03-06 |
| O.S. nº: (Work Ord | ler n°) 88428 [tem n°: (Item n°) 01 | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) MEC (Mechanic |) INSP (Inspector) |
| 05 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) NUMUM DANC FOI INCOMMENDAME | AND CALCULAR |
| 06 | Inspecionar as palhetas do 2º estágio do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões encontrados na figura abaixo. (Inspect HP compressor blade second-stage in accordance with PW545B M.M.P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | Transfer Landau |
| 07 | Remover o Bleed Valve conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Remove the Compressor Bleed Valve in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) | ANALO DECUTION |
| 08 | Inspecionar o <i>Impeller</i> do compressor de alta pressão conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (<i>Inspect HP Compressor Impeller in accordance with PW545B M.M P/N:</i> 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | |

| | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet) 5 de (of) 17 |
|-------------------|--|-------------------------------|
| | TM 040 | No. FT MT-03-06 |
| O.S. n (Work C | $\frac{1}{(ltem n^{\circ})} = \frac{1}{2} \frac{1}{2}$ | W1-03-00 |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) MEC (Mechanic) | INSP (Inspector) |
| 08 (cont) | LEADER LEA DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) MEMANA MA EL ENCATADO | |
| 09 | Instalar novo o'ring no cover removido do item 04 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install a new performed packing on the cover removed on the item 04 in accordance with PW545B M M P/N: 30J2242, chapter 72,00,00) | CARLO LACUTYS |
| 10 | Instalar o <i>cover</i> e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install the cover and torque the nut in accordance with PW545B M.M.P.N: 30J2242, chapter 72-00-00) | THE FREUTRAL OS |
| 11 | Instalar o plain cover com a marcação do PN para cima e torquear conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00. (Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00) Torque= Ib.in | 1057 |
| 12 | Instalar a bleed valve removida no item 07 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 75- 30-01. (Install the bleed valve removed on item 07 in accordance with PW545B M.M P/N: 30J2242, chapter 75-30-01) | Trant (057 |

| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet) 6 de (of) 17 |
|----------------------|---|-------------------------------|
| | TM 040 | No. FT MT-03-06 |
| D.S. nº: Work Ord | $ler n^{\circ}) \qquad \qquad$ | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) MEC (Mechanic, |) INSP (Inspector) |
| 13 | Remover o plug da caixa de ignição conforme conforme instruções do AMM da aeronave, capitulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | 7/2001 05 |
| 14 | Remover o cabo de ignição conforme conforme instruções do AMM da aeronave,capitulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircrait Maintenance Manual, chapter 74) | Transfor |
| 15 | Remover a vela de ignição conforme conforme instruções do AMM da aeronave,capitulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74) | TAN |
| 16 | PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the fuel nozzles using the tool PN: PWC44026 in accordance with PW545B M. M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | Cost (os |

| 9777 | FICHA DE INS | ICHA DE TRABALH (WORK SHEET) SPEÇÃO BOROSCÓPIO <u>PW 545B</u> NSPECTION REPORT FOR | HO CA DO MOTOR ENGINE PW545B) | Folha (Sheel 7 de (of) 17 | |
|--|--|---|--|---|--|
| | | TM 040 | LINGINE T WOTOD) | No. FT MT-03-06 | |
| der nº) | 428 | Item n°: (Item n°) | | | |
| | SERVIÇO (Work | A EXECUTAR to perform) | MEC (Mecha | C INSP (Inspector | |
| Inspecional ferramenta do Motor P os danos e (Inspect Con accordance w the damages | ar os <i>Liners</i> da Câma a PN: PWC44026 cou PW545B, P/N: 30J22 a as dimensões na fig <i>abustion Chamber Liner</i> <i>with PW545B M.M P/N: 3</i> and dimensions at the p OUTER LINER COOLING RING DESCRIÇÃO DOS I (Damage. MMM OA ACC | Ara de Combustão utiliza nforme o manual de Ma 242, capítulo 72-00-00, e gura abaixo. using the tool PN: PWC4402 30J2242, chapter 72-00-00, a picture below.) KONITER / SUPPORT PIN BOSS FUEL NOZZLE FUEL NOZZLE NNER LINER DANOS OBSERVADOS is description) MO GI MGA | ando a inutenção e registrar 26 in and record BRACKET COLLAR | | |
| Inspeciona utilizando a Manutençã 00, e regis (Inspect the accordance the damages | ar a <i>Vane</i> da turbina a ferramenta PN: PW ăo do Motor PW545E trar os danos e as d <i>First Stage HP Turbine N</i> with PW545B M.M, P/N: s and dimensions at the p | de alta pressão do 1º es VC44026 conforme o ma B, P/N: 30J2242, capítul imensões na figura abai Vane using the tool PN: PWC 30J2242, chapter 72-00-00, picture below.) | stágio anual de lo 72-00- ixo. 244026 in and record | A A A A A A A A A A A A A A A A A A A | |
| | der n°) | FICHA DE INS (BOROSCOPE II (BOROSCOPE II der n°) Car n°) | (WORK SHEET) FICHA DE INSPECÃO BOROSCOPI PW 545B (BOROSCOPE INSPECTION REPORT FOR TM 040 TM 040 Item nº: (Item nº) SERVIÇO A EXECUTAR (Work to perform) Inspecionar os Liners da Câmara de Combustão utiliza ferramenta PN: PWC44026 conforme o manual de Ma do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, et os danos e as dimensões na figura abaixo. (Inspect Combustão Chamber Liner using the tool PN: PWC4402 accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, the damages and dimensions at the picture below.) OUTER LINER OUTER LINER | (WWORK SHEET) FICHA DE INSPECÃO BOROSCÓPICA DO MOTOR PW 545B (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) TM 040 Item nº: (Item nº) Item nº: (Mecha der nº SERVIÇO A EXECUTAR (Work to perform) Item nº: (Mecha Item nº: (Mecha <td colspan<="" t<="" td=""></td> | |

FICHA DE TRABALHO (WORK SHEET) Folha (Sheet) ----FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR 8 de (of) 17 **PW 545B** BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) No. FT TM 040 MT-03-06 0.S. nº: Item nº: (Work Order nº) (Item n°) ITEM SERVIÇO A EXECUTAR MEC INSP (Item) (Work to perform) (Mechanic) (Inspector) LEADING EDGE TRAILING EDGE **EDGE 0,100** 18 INNER SHROUD (cont) DESCRIÇÃO DOS DANOS OBSERVADOS - All (Damages description) hum Man Inspecionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) 12001 (05 19

| 7 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet) 9 de (of) 17 |
|----------------------|---|-------------------------------|
| | TM 040 | No. FT MT-03-06 |
| O.S. nº: Work Ord | $ler n^{\circ}) \qquad \qquad$ | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) (Mech | EC INSP (Inspector) |
| 19 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Nenhum Ano oi encontrado | 2005 |
| 20 | Inspecionar o Liner do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B M.M P/N: 30J2242, chapter 72-00- 00, and record the damages and dimensions at the picture below.) TURENE CASE UNERNE CASE UNERNE CASE UNERNE CASE UNER SEGMENTS DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Memhum JAnc Jai McCutta | |

| 77 | 987 | FICHA DE INS | ICHA DE TRABALI (WORK SHEET) SPEÇÃO BOROSCÓPI <u>PW 545B</u> | CA DO MOTOR | Fc 1 | olha (Sheet) 0 de (of) 17 |
|----------------------|--|---|--|---|------------|------------------------------|
| | | | TM 040 | ENGINE PROPODY | | No. FT MT-03-06 |
| O.S. nº: Work Ord | der nº) 8342 | 8 | ltem n°: (ltem n°) | | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR to perform) | ME (Mech | C anic) | INSP (Inspector) |
| 21 | Inspecionar a V Manual de Man capítulo 72-00-0 figura abaixo. (Inspect the Secon 545B M.M P/N: 30. dimensions at the p DES DES | ane Ring do 2º utenção do moi 00, e registrar o d Stage LP Turbin J2242, chapter 72- bicture below.) | estágio da turbina conf tor PW545B, P/N: 30J2 s danos e as dimensõe e Vane Ring in accordance 00-00, and record the dama TRAILING ED INNER SP DANOS OBSERVADOS s description MO COL (MO | rorme o 242, es na with PW ages and HER SHROUD | | |
| 22 | Inspecionar a p manual de Man capítulo 72-00- figura abaixo. (Inspect the Secon M.M P/N: 30J2242 dimensions at the | aineta do 2° es utenção do Mo 00, e registrar d od Stage LP Turbin 2, chapter 72-00-00 picture below.) | tor PW545B, P/N: 30J2 os danos e as dimensõe ne Blades in accordance with 0, and record the damages a | h PW545B | all all | Trent for |

| 7 417 | FICHA DE IN (BOROSCOPE I | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA DO <u>PW 545B</u> NSPECTION REPORT FOR ENGIN | <u>D MOTOR</u> E PW545B) | Folha (Sheet) 11 de (of) 17 |
|-----------------------------|-----------------------------|--|-------------------------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 3428 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO (Work | A EXECUTAR to perform) | MEC (Mechanic) | INSP (Inspector) |

| 22 (cont) | LEADING EDGE LEADING EDGE NINER SUROUD NINER |
|--------------|---|
| | |
| 23 | Inspecionar a Vane Ring do 3º estágio da turbina conforme o manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Third Stage LP Turbine Vane Ring in accordance with PW 545B M.M P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |









| 25 (cont) | LEADING EDGE TRAILING EDGE |
|--------------|---|
| | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Jenhum dano foi encontrado |
| 26 | Inspecionar a palheta do 4º estágio da turbina conforme o Manual de Manutenção do Motor PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Fourth Stage LP Turbine Blades in accordance with PW 545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) |





FICHA DE TRABALHO (WORK SHEET) Folha (Sheet) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR 16 de (of) 17 **PW 545B** BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) No. FT TM 040 MT-03-06 Item nº: O.S. nº: (Work Order nº) (Item n°) SERVIÇO A EXECUTAR MEC INSP ITEM (Work to perform) (Mechanic) (Inspector) (Item) NO.4 BEARING HOUSING 27 (cont) 1 100 DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) NCON Inspecionar o Intermediate Case utilizando a ferramenta PN: PWC66581 conforme o manual de Manutenção do motor, PW545B, P/N: 30J2242, capítulo 72-00-00, e registrar ha tabela abaixo os danos encontrados. (Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B M.M. P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) DESCRIÇÃO DOS DANOS OBSERVADOS 28 (Damages description) (ONOSAG AC 10 NUMA

| O.S. n ^o : (Work Order n | 80 (12) | TM 040 | ~ | No FT |
|--|--|--|------------------|---------------------|
| O.S. nº: Work Order n | 00 (1) C | | (| MT-03-06 |
| ITEM | 19 83428 | Item n°: (Item n°) | | |
| (Item) | SERV | IÇO A EXECUTAR Nork to perform) | MEC (Mechanic | (Inspector) |
| 29 Re (<i>Re</i> <i>ins</i> | emover as ferramentas P PWC44026,PWC66581 in emove the Tooling PWC67699 stalled before) | WC67699,PWC30128- nstaladas anteriormente. 9,PWC30128-6,PWC44026,PWC66 | 581 | 0 |
| 30 Ins (In cha To | stalar o starter removido MM da aeronave,capitulo stall the starter motor in accord apter 80) orque= | do item 02 conforme instruçõe 80. dance with Aircraft Maintenance Ma | es do | |
| 31 Ins ae (In. cha | stalar a vela de ignição co eronave,capitulo 74. stall the igniter plug in accorda apter 74) | onforme instruções do AMM d ance with Aircraft Maintenance Man | a uai, | Territy do software |
| 32 (Ins Ma | stalar o plug da caixa de MM da aeronave,capitulo stall the plug on the exciter bo anual, chapter 74) | ignição conforme instruções o 74. x in accordance with Aircraft Mainte | io enance | 05 |
| 33 Ins ae (Ins Ma | stalar o cabo de ignição c eronave,capitulo 74. stall the igniter cable from excl aintenance Manual, chapter 74 | conforme instruções do AMM o iter box in accordance with Aircraft | a a | AMERIC LECOURS |

Observação (Remarks):



Assinatura e Carimbo do Inspetor (Inspector Signature and Stamp)

5u/206 Data

Data (Date)



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A. CESSNA AUTHORIZED SERVICE CENTER

FICHA DE SERVIÇO (WORK SHEET)

TM 17/01

| 14-1 P ² | | FICHA DE SERV | /IÇO(WORK SHEET) | 10 | |
|---------------------|-------------------|----------------------------|-------------------------|-------------------|--------------------------|
| ITEM(ITEM) | OS(W.O.) | PREFIXO(ACFT. REG) | SN | INÍCIO(DATE IN |) TÉRMINO (DATE OUT) |
| 2 | 83428 | PP-RST | 560-5579 | 08/07/2016 | 087/206 |
| | | SERVIÇO (SER | VICE REQUESTED) | | |
| EFETUAR TESTE DE P | ERFORMACE NOS M | OTORES (FIVE PONTS) | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | SERVIÇO EXECUTADO | (SERVICE ACCOMPLISHE | D) | |
| EFETUADO TESTE DE | PERFORMANCE CON | VFORME INFORMAÇÕES DESCRIT | TAS NO M.M PWC 545B CAP | 71-00-00 REV 21.1 | PN 30J2242.CONFORME |
| CLOULTADOS EM ANE | EXU US MUTURES PC | DERAM CONTINUAR EM OPERAÇ | ₋ АО. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5 | | | | | |
| 1 | | MATERIAI | S (MATERIALS) | | |
| | DESCRIÇÃO (DESCI | RIPTION) | PN REMOVIDO (REMOVED |) QTD | SN REMOVIDO (REMOVED) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | DESCRIÇÃO (DESCI | RIPTION) | PN INST. (INSTALLED) | QTD 9 | SN INSTALADO (INSTALLED) |
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| / | | / | | | |
| | / | | | | |
| | | | | | |
| (| / | ASSINATURA E/OU CARI | MBO, CONFORME APLIC | VEL | |
| | // | (SIGNATURE AND/OR | R STAMP, AS APPLICABLE |) | |
| \sim | MECÂNICO (MEC | HANIC) | I | NSPETOR (INSPE | CTOR) |
| / | | | | | |
| | 1111 | | | | |
| V/ | MIL | | 3 | VIALO BARCUTIVA | |

| 2006 | ev. 6, BB. Patel, Feb. 02, | R | | | _ | | |
|-------------|----------------------------|---------------------------|----------------------|----------------------|---------------------|----------------------------|---|
| | | | 72 | N2: (seconds) | | 68 | N1 : (seconds) |
| | | | | | Run Down Time | 7 | |
| 48/ | | 010 | 670 | 0++ | 000 | | |
| c'he | | 20,2 | 000 | EAA RAA | 2, 2 | 26.22 | T45 or T5 (Deg. C) |
| ת כת | | 0 2 0 | 95.0 | 96.4 | 97.2 | 97.9 | N2(%) |
| 23.5 | | 8,08 | 84,8 | 8,38 | 7,88 | 90,7 | N1 (%) |
| | | | on | Parameters Calculati | Corrected Engine | | |
| | | | | | | | |
| 60 | | 100 | 105 | 100 | 100 | 90 | Oil Temp. (deg. F) |
| 45 | | 78 | 70 | 70 | 75 | 78 | Oil Press (psia) |
| 240 | | 1340 | 1440 | 1560 | 1680 | 1730 | Fuel Flow (pph) |
| 500 | | 625 | 645 | 660 | 675 | 700 | ITT (Deg. C) |
| 50,9 | | 94,7 | 95,8 | 97,2 | 86 | 98,7 | N2(%) |
| 23,7 | | 81,5 | 85,5 | 87,5 | 89,5 | 91,5 | N1 (%) |
| | | | | | | | |
| Ground Idle | | Take-off - 10% | Take off - 6% | Take-off - 4% | Take-off - 2% | Normal Take-off | Engine Parameter (A/C Indicator) |
| | | ice off | f / Bleed off/Anti-i | Sync. of | | | Observed |
| | | 90,5 | | | Manuals (N1 %): | itions per A/C Flight | Max N1 for Ambient cond |
| -4,6589 | D | 1,0086 | Root Theta | 1,0174 | Theta | 20 | UAI (Deg. C) |
| PW545B | Engine Model | 2280 | Press. Alt. | | Wind Dir./Velo. | | Engine TTSN. |
| LH#1 | Engine Position | DD0160 | Engine S/N. | PP-RST | A/C Reg. No. | 08/jul/16 | Date |
| | | | | | | | P&WC 9894 (01/99) |
| | | | | et | un Data She | Calibration R | Turbofan Engine (Initial Installation) |
| | 104, 040 IAI | בסווצוסטוו, עופטפר, סמוומ | | | | | |
| | | nonculatil Ouchoo Con- | | | | | |
| | corp. | | | pany | ed Technologies Com | iited Technologies/A Unite | Une societe de Ur |
| | Corn | Pratt & Whiteny Canada | | | nada | Whitney Ca | 学 Pratt & |
| | | | | | | | |

| 79,3 35 93,3 23,6 588 477 | | | | | ~ | |
|--|--------------------|---------------------|--------------------|-----------------------|----------------------|-------------------------------------|
| 79,3 23,6 93,3 588 477 | | | | Run Down Time | | |
| 79,3 77 93,3 50,5 | | 11.9 | 170 | 040 | 100 | |
| 79,3 35 79,3 23,6 | | 94,5 | 95,4 | 96,4 | 9/,4 | N2(%) |
| 35 | | 83,2 | 85,2 | 87,1 | 89,1 | N1 (%) |
| 35 | | ion | arameters Calculat | Corrected Engine P | | |
| 35 | | | | | | |
| 35 | 101 | 103 | 103 | 104 | 102 | Oil Temp. (deg. F) |
| | 73 | 72 | 72 | 72 | 75 | Oil Press (psia) |
| 240 | 1280 | 1430 | 1490 | 1590 | 1650 | Fuel Flow (pph) |
| 500 | 615 | 645 | 655 | 675 | 069 | ITT (Deg. C) |
| 51,3 | 94,7 | 96 | 96,9 | 97,9 | 98,9 | N2(%) |
| 24 | 80,5 | 84,5 | 86,5 | 88,5 | 90,5 | N1 (%) |
| | | | | | | |
| 10% Ground Idle | Take-off - 10 | Take off - 6% | Take-off - 4% | Take-off - 2% | Normal Take-off | Engine Parameter (A/C Indicator) |
| | ice off | f / Bleed off/Anti- | Sync. of | | | Observed |
| 90,5 | | | | ht Manuals (N1 %) | itions per A/C Flig | Max N1 for Ambient cond |
| D -8,2731 | 1,0155 | Root Theta | 1,0312 | Theta | 24 | OAT (Deg. C) |
| Engine Model PW545B | 2350 | Press. Alt. | | Wind Dir./Velo. | | Engine TTSN. |
| D Engine Position LH # 1 | DD0160 | Engine S/N. | PP-RST | A/C Reg. No. | 28/out/15 | Date |
| | | | leet | Run Data Sh | Calibration | P&WC 9936 (1999-10) |
| bec, Canada, J4G 1A1 | Longueuii, Quebe | | | | | |
| torine | 1000, Marie-Victor | | ompany | Chiled Technologies C | inted rechnologies/A | |
| Canada Corp. | Pratt & Whiteny C | | | anada | Whitney C | Pratt & |



| >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | 200 | D | | | | | |
|---|-----------------|--------------------------------------|---------------------|---------------------|----------------------|---------------------------|-------------------------------------|
| | | | 73 | V2: (seconds) | 7 | 65 | N1 : (seconds) |
| | | | | | Run Down Time | | |
| | | | | | | | |
| 482 | | 605 | 629 | 634 | 664 | 683 | T45 or T5 (Deg. C) |
| 50,6 | | 94,2 | 95,3 | 96,0 | 97,8 | 98,5 | N2(%) |
| 23,3 | | 80,8 | 84,8 | 8,38 | 88,7 | 90,7 | N1 (%) |
| | | | on | arameters Calculati | Corrected Engine P | | |
| | | | | | | | |
| 70 | | 100 | 100 | 100 | 100 | 95 | Oil Temp. (deg. F) |
| 40 | | 78 | 78 | 78 | 78 | 08 | Oil Press (psia) |
| 230 | | 1350 | 1480 | 1510 | 1690 | 1780 | Fuel Flow (pph) |
| 495 | | 620 | 645 | 650 | 089 | 700 | ITT (Deg. C) |
| 51 | | 95 | 96,1 | 96,8 | 98,6 | 99,4 | N2(%) |
| 23,5 | | 81,5 | 85,5 | 87,5 | 89,5 | 91,5 | N1 (%) |
| | | | | | | | |
| Ground Idle | | Take-off - 10% | Take off - 6% | Take-off - 4% | Take-off - 2% | Normal Take-off | Engine Parameter (A/C Indicator) |
| | | ice off | f / Bleed off/Anti- | Sync. of | | | Observed |
| | | 91,5 | | | Manuals (N1 %): | itions per A/C Flight | Max N1 for Ambient cond |
| -4,6589 | D | 1,0086 | Root Theta | 1,0174 | Theta | 20 | OAT (Deg. C) |
| PW545B | Engine Model | 2280 | Press. Alt. | | Wind Dir./Velo. | | Engine TTSN. |
| RH # 2 | Engine Position | DD0164 | Engine S/N. | PP-RST | A/C Reg. No. | 08/jul/16 | Date |
| | | | | | | | P&WC 9894 (01/99) |
| | | | | | | | (Initial Installation) |
| | | | | et | un Data She | Calibration R | Turbofan Engine |
| | ida, J4G 1A1 | _ongueuil, Quebec, Cana | | | | | |
| | | 1000, Marie-Victorine | | any | ed Technologies Comp | nited Technologies/A Unit | Une societe de Un |
| | Corp. | ^o ratt & Whiteny Canada (| | | nada | Whitney Ca | Pratt & |
| | | | | | | | |

| | N2: (seconds) |
|---------------------------|---------------|
| Rev. 6, BB. Patel, Feb. (| 78 |

| N1 : (seconds) | | 145 of 15 (Deg. C) | N2(%) | N1 (%) | | Oil Temp. (deg. F) | Oil Press (psia) | Fuel Flow (pph) | ITT (Deg. C) | N2(%) | N1 (%) | Engine Parameter (A/C Indicator) | Upserved | Deserved | Max N1 for Ambient cond | OAT (Deg. C) | Engine TTSN. | Date | Turbofan Engine P&WC 9936 (1999-10) | | Alle. | Pratt & |
|----------------|---------------|--------------------|-------|--------|--------------------|--------------------|------------------|-----------------|--------------|-------|--------|-------------------------------------|----------------------|----------|-------------------------|--------------|-----------------|-----------------|--|-----------------------|------------------------|-------------------------------|
| 70 | | 667 | 98,0 | 89,1 | | 66 | 77 | 1720 | 069 | 99,5 | 90,5 | Normal Take-off | | | ditions per A/C Fli | 24 | | 28/out/15 | Calibration | | | Whitney (|
| | Run Down Time | 641 | 96,8 | 87,1 | Corrected Engine | 103 | 73 | 1610 | 670 | 98,3 | 88,5 | Take-off - 2% | | | ght Manuals (N1 % | Theta | Wind Dir./Velo. | A/C Reg. No. | n Run Data S | | Cinica reciniciogica d | Canada Inited Technologies |
| N2: (seconds) | | 627 | 95,7 | 85,2 | Parameters Calcula | 103 | 74 | 1480 | 655 | 97,2 | 5,98 | Take-off - 4% | Sync. | |): | 1,0312 | | PP-RST | heet | | Company | |
| 78 | | 612 | 94,6 | 83,2 | ation | 102 | 74 | 1410 | 640 | 96,1 | 84,5 | Take off - 6% | off / Bleed off/Anti | | | Root Theta | Press. Alt. | Engine S/N. | | | | |
| | | 593 | 93,1 | 79,3 | | 100 | 74 | 1250 | 620 | 94,5 | 80,5 | Take-off - 10% | -ice off | | 90,5 | 1,0155 | 2350 | DD0164 | | Longueuil, Quebec, C: | 1000, Marie-Victorine | Pratt & Whiteny Cana |
| | | | | | | | | | | | | | | | 0.1 | D | Engine Model | Engine Position | | anada, J4G 1A1 | | da Corp. |
| | | 477 | 50,5 | 23,3 | | 77 | 39 | 230 | 500 | 51,3 | 23,7 | Ground Idle | | | | -8,2731 | PW545B | RH # 2 | | | | |





TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A. CESSNA AUTHORIZED SERVICE CENTER

FICHA DE SERVIÇO (WORK SHEET)

TM 17/01

| | | FICHA DE SER | VIÇO(WORK SHEE | T) | | |
|----------------------------|--|---|---|--------------|-----------|--|
| ITEM(ITEM) | OS(W.O.) | PREFIXO(ACFT. REG) | SN | INÍCIO(DAT | TE IN) | TÉRMINO (DATE OUT |
| 3 | 83428 | PP-RST | 560-5579 | 08/07/20 | 16 | 13/07/14 |
| | | SERVIÇO (SE | RVICE REQUESTED) | | | 2010 110 |
| ETUAR INSPEÇÃO D | DE CORROSÃO EXTE | RNA E INTERNA (LAVATORIO) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | (In the set of the set | SERVIÇO EXECUTADO | (SERVICE ACCOMPLI | SHED) | | |
| EFETUP | DA INSPEC | an DE CORROS | in EXTERN | D E T | | A10 |
| GONDUE | CONTOR | MG TNETRIC | S CONTINAS | NOS - | TARCI | |
| 22 - 00-01 | 2-710 52 | THE LOSTROCOL | es contidas | TO AS | AICEFI | as e caritue |
| 52 00-00 | ~~ 230, 55 | 40-40230 : 35 | -30-03-232 | , 55-30-0 | 01-52 | 5,57-30-00-2 |
| - 55-50- | au - 233. | DO M.M. CESSA | JA MODELD | 560XL | RÆU. | 47 |
| | | | | | | |
| | | | | | | |
| | The state of the state | MATERIA | IS (MATERIALS) | S Stores | N-15-10-1 | |
| | DESCRIÇÃO (DESCR | UPTION) | PN REMOVIDO (REMO | VED) QTD | SN R | EMOVIDO (REMOVED) |
| | | | | | | |
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| | | | | | | |
| and the state of the state | DESCRIÇÃO (DESCE | TOTION | | | | |
| | DESCRIÇÃO (DESCR | IPHON) | PN INST. (INSTALLE | D) QTD | SN IN | STALADO (INSTALLED) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| ALC: NO. | 10 ¹⁻⁷ 11 1120 | | A CONTRACTOR OF THE OWNER | | | and the second s |
| | | ASSINATURA E/OU CAR (SIGNATURE AND/O | IMBO, CONFORME API R STAMP, AS APPLICA | | | |
| 1223-26-65 | MITERIAL OS(W.G.) PREFIXO(ACFT. REG) SN INICIO(DATE IN) TÉRMINO (DATE OUT) 3 83428 PP-RST 560-5579 08/07/2016 13 (O A (LG SERVIÇO (SERVICE REQUESTED) INISPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO) SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED) CÉCTUPDA LASPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO) SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED) CÉCTUPDA LASPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO) SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED) CAROSÃO EXTERNA E INTERNA (LAVATORIO) SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED) CAROSÃO EXTERNA E INTERNA (LAVATORIO) OUTO LASPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO) OUTO LASPEÇÃO DE CORROSÃO EXTERNA E INTERNA (LAVATORIO) OUTO SERVIÇO EXECUTADO (SERVICE ACCOMPLISHED) OUTO SA SA CALLED ADO ADO DO COLO SERVICE ACCOMPLISHED MATERIALS (MATERIALS) MATERIALS (MATERIALS) DESCRIÇÃO (DESCRIPTION) PN INST. (INSTALLED) QTD SN INSTALADO (INSTALLED) ASSINATURA E/OU CARIMBO, CONFORME APLICÁVEL (SIGNATURE AND/OR STA | | | | | |
| All States | MECANICO (MEC | HANIC) | 22.00 | INSPETOR (IN | SPECTOR | 1) |
| | Y III | | | L | - | |
| | The | | | Tinte | 037 | |
| (| H | | 1/1/ | | | |
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TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S.A. CESSNA AUTHORIZED SERVICE CENTER

FICHA DE SERVIÇO (WORK SHEET)

TM 17/01

| | And the second | FICHA DE SER | VIÇO(WORK SHEET) | | |
|--------------------|--------------------|---|--|------------------------|----------------------------|
| ITEM(ITEM) | OS(W.O.) | PREFIXO(ACFT. REG) | SN | INÍCIO(DATE IN) | TÉRMINO (DATE OUT) |
| 4 | 83428 | PP-RST | 560-5579 | 08/07/2016 | 13107116 |
| | | SERVIÇO (SE | RVICE REQUESTED) | | |
| TESTE DE TREM DE P | POUSO - EXTENSÃO E | RETRAÇÃO | | | |
| | | SERVIÇO EXECUTADO | (SERVICE ACCOMPLISHE | D) | |
| Pouso D DO M | M. CESSN | IA MODELO | SCOXL CAPIT | TO NAS | INSTRUÇÃOS 10-00 ROU.4) |
| | DESCRIÇÃO (DESC | MATERIA RIPTION) | IS (MATERIALS) PN REMOVIDO (REMOVED) | QTD SN | REMOVIDO (REMOVED) |
| | DESCRIÇÃO (DESC | RIPTION) | PN INST. (INSTALLED) | QTD SN | INSTALADO (INSTALLED) |
| | MECÂNICO (MEC | ASSINATURA E/OU CAR (SIGNATURE AND/O HANIC) | IMBO, CONFORME APLICÁ R STAMP, AS APPLICABLE, IN | VEL SPETOR (INSPECT | OR) |
| | A | | | Train | 037 |



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S/A

CESSNA AUTHORIZED SERVICE CENTER

DEPARTAMENTO DE ATENDIMENTO AO CLIENTE

CNPJ: 52.045.457/0008-92 I.E: 407420009110 I.M.: 82283

TM 023 / 01

| ORD | EM DE SERVIÇO (WORK ORDER) | PREFIXO (ACFT REG.) | DAT | A DE ENTRADA (DA | TE-IN) | DATA DE SAÍD | A (DATE-OUT) |
|-----|----------------------------|----------------------------|-----------|------------------|--------|--------------|---------------------|
| | 83428 | PP-RST | | 08/07/2016 | | 1.3/0 | 07/16 |
| | Nome | au Futurau | - | 1 minut | | 301 | |
| N.º | (N | ame) | 1 | (Initials) | (AN/ | AC License#) | N.º Chapa (ID#:) |
| | | Mecânicos (I | Mechanic | 1 | 20 | | |
| 1 | I And Fan. | PILO | / | Sella | 19 | 201 | 286t |
| 2 | /Edson F. M | endes | / | All | 19 | 567 | 2823 |
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| 20 | | | | | | | |
| | | Inspetores (| Inpectors | 2 | | | |
| 1 | EDUAKDO MARCI | A DE AUBRA | 0 | | 15 | 763 | 3144 |
| 2 | | (mage | | A | | | |
| 3 | Viadíison S Inspetor | Saldanha Cardoso | 4 | 10000022 | | 11989 | 2467 |
| 4 | NACO E UNA | Código ANAC: nº 71830-4 | N | 03/ | | | |
| 5 | | | | | | | |



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S/A

CESSNA AUTHORIZED SERVICE CENTER

DEPARTAMENTO DE ATENDIMENTO AO CLIENTE CNPJ: 52.045.457/0008-92 I.E: 407420009110 I.M.: 82283

TM 15/02

| ORD | EM DE SERVIÇO (WORK ORDER) | PREFIXO (ACFT REG.) | DATA DE ENTRADA | A (DATE-IN) | DATA DE SAÍDA (DATE-OUT) | | | |
|--|--|--|--|--|---|--|--|--|
| | 94332 | PP-RST | 19/06/20 | 18 | 19/06/18 | | | |
| | CÓDIGO (Code) : C00970 | | | | 14 4/ 40 | | | |
| PRC | OPRIETÁRIO (Acft. Owner) : | | S TAM DE | 2018 | | | | |
| | ENDEREÇO (Address) : | | | 2010 | | | | |
| | CIDADE (City) : | B | OROSCÓF | PIO NC | S MOTORES | | | |
| | CGC/CPF (Braz. Acft. Only) : | | | | | | | |
| | TRIPULAÇÃO (Crew) : | | | | | | | |
| 1 | LOCAL - FONE (Local - Phone) : | | | | | | | |
| | PREFIXO (Acft Reg. No.) : PP-RST | | ANV HORAS (Acft Tota | Houre): 27 | 8011 | | | |
| | FABRICANTE (Manufacturer) : | | ANV POLISOS (Actt La | indinas): | 2014 | | | |
| | MODELO (Model) : 560 XI -XI S | | TOTAL COMPLICTIVEL (Tot | inumgs). 767 | 0 | | | |
| | Nº SÉRIE (S/N) : 560-5579 | | TIDIAL COMBUSTIVEL (10) | al Fuel): | | | | |
| | Nº LINIDADE (Linit No.) : 5579 | | TIPO DE OLEO (O | ul Type): | | | | |
| | MOTOR LH (ENCINE) | 10 | | | | | | |
| | MODELO (Model): Dis 15415 B | n) | MODELO AL-LA | MOTOR RH (ENG | GINE RH) | | | |
| Nº S | SÉRIE (LH Eng S/N): OLE DOOLO | 2 | MODELO (Model) : | PW 545 | B | | | |
| нов | AS (14 Eng Hours): 22 AD 11 | | Nº SERIE (RH Eng. S/N) : | PEE-DUC | 164 | | | |
| CICLO | OS (LIT Eng. Hours): 22 80, 4 | | HORAS (RH Eng. Hours) : | 2280,4 | | | | |
| CICLU | JS (LH Erig. Cycles): 7637 | 1 | CICLOS (RH Eng. Cycles) : | 1651 | | | | |
| | HELICE LH (PROPELLER | LH) | HÉ | LICE RH (PROP | ELLER RH) | | | |
| | MODELO (Model) : | - | MODELO (Model) : | | | | | |
| Nº S | SERIE (LH Eng. S/N) : | | Nº SÉRIE (RH Eng. S/N) : | | | | | |
| HOR | AS (LH Eng. Hours) : | | HORAS (RH Eng. Hours) : | | | | | |
| NOTE : | MATERIAIS/COMPONENTES INCORPORADOS E S After the aircraft leaves, this W.O. will be filed with a incorporated material/components airworthiness tag INSPEÇÃO PRELIMINAR COMPLETADA (Prelimina INSPEÇÃO DE DANO OCULTO COMPLETADA (Hid | SERVIÇOS ESPECIAIS OU MODIFICAÇÕE III of the following reports: receiving inspectio s and special work or modifications. Iry Inspection Completed) Iden Damage Inspection Completed) | s, botter lives, bars, cabbos bi S. | t found discrepancie | e IAS DE AERONAVEGABILIDADE DOS | | | |
| | | | | por (by) . | NIA | | | |
| | LIBERAÇÃO | DA AERONAVE PARA RETORNO A | O SERVICO (MAINTENANC | E DELEASE) | | | | |
| SERAL, RE LERONĂU (AIS REQL Iccordanc Ipproved f | EPARO E/OU INSPEÇÃO DE ACORDO COM INSTRU TICA SOB OS QUAIS O OPERADOR ESTÁ HOMOLO UISITOS. (The aircraft, airframe or aircraft engine id e with current instructions contained in the manufa for return to service, concerning the tasks performe ASSINADO POR (Signed by): | CODES ATUALIZADAS CONTIDAS NO MAN DOADO, E ESTĂ APROVADO(A) PARA RE Jentified above was maintained, preventiv cturer's maintenance manual, in the main ed in this W.O , as per those requirements ANAC - COM 6 FAA Outra (Other) TAM - AVIAÇÃO EXECUTIVA | VIAL DE MANUTER(ÇÃO DO FA TORNO AO SERVIÇO, COM RE ely maintained, rebuilt, altered, tenance rules of the Federal Av .) 1905-01 | BRICANTE, NOS R BRICANTE, NOS R SPEITO AS TAREF, modified, overhaul lation Regulations | Deletação, MODIFICAÇÃO, REVISÃO EGULAMENTOS DE HOMOLOGAÇÃO AS EXECUTADAS NESTA OS, SEGUNDO led, repaired and/or inspected in under which the operator is certified and i inder which the operator is certified and i inspector inspector inspector inspector inspector inspector inspector inspector inspector inspector inspector inspector | | | |
| | | | | himme | | | | |
| | | | UPANOE DOLIONA | | | | | |
| SERÁ DE E COBERT The costu | EXCLUSIVA RESPONSABILIDADE DO CLIENTE A P URA DE QUAISQUER RISCOS E DANOS DE PERM/ mer is responsible to have and show the aircraft ins cidents.) | OSSE E APRESENTAÇÃO, QUANDO SOL ANÊNCIA NO SOLO, ACIDENTES, TRASLA surance policy if requested, in order to co | ICITADA, DA APÓLICE DE SEG ADOS E VÕOS DE EXPERIÊNCI ver the risks and damages con | URO DA AERONAV A. cerning aircraft und | E QUE PERMANECER NO HANGAR PAR. ler maintenance, flight test, ferry flights a | | | |

LANÇADO CADERNETA

DIGITADO

Roberta Motivi 18/09/18

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TAM AVIAÇÃO EXECUTIVA E TAXI AÉREO S.A. CESSNA AUTHORIZED SERVICE CENTER FICHA DE SERVIÇO (WORK SHEET) TM 17701

| | | FICHA DE | SERVIÇO(WORK SHE | ET) | State States |
|-----------------|----------------|--|--|---------------------|--------------------|
| ITEM(ITEM) | OS(W.O.) | PREFIXO(ACFT. REG) | SN | INÍCIO(DATE IN) | TÉRMINO (DATE OUT) |
| 1 | 94332 | PP-RST | 560-5579 | 19/06/2018 | 19/06/13 |
| | | SERVIÇ | O (SERVICE REQUESTED) | | the second second |
| EXECUTAR BOROS | COPIA NOS MOTO | DRES Á PEDIDO DO POSSIVEL C | COMPRADOR | | |
| EXECUTADO BOROS | COPIA NOS MOTO | SERVIÇO EXECU DRES CONFORME FICHA ANEXA | TADO (SERVICE ACCOMP | LISHED) | |
| | | | | | |
| | | МАТ | ERIAIS (MATERIALS) | | |
| | DESCRIÇÃO (DES | CRIPTION) | PN REMOVIDO (REMOV | ED) QTD | |
| | | | | | |
| | DESCRIÇÃO (DES | CRIPTION) | PN INST. (INSTALLED | 9) QTD | |
| | | | | | |
| | | ASSINATURA E/OU (SIGNATURE AI | CARIMBO, CONFORME A ND/OR STAMP, AS APPLIC | APLICÁVEL CABLE) | |
| | MECÂNICO (MI | ECHANIC) | | INSPETOR (INSPECT | OR) |
| hll | 2 Plue | letti | | 56 | |
| | 1 | - (| and the second s | | |



FICHA DE TRABALHO (WORK SHEET)

FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR

Folha (Sheet) 1 de (of) 22

PW 545B

(BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B)

TM 040

No. FT MT-03-06

| | | | INFORMA | ÇÕES DA FI | | LHO | | | | |
|--|--------------------------|------------------|--|---|--|---|---|---------------------------------------|--|--|
| NÚMERO DA FICHA (SHEET NUMBER) EMISSÃO C (ORIGINAL 01/Nov. (Nov 01, Nov 01, | | | EMISSÃO OF (ORIGINAL I | RIGINAL: SSUE:) | REVISÃO: (REVISION): | | DAT | A DA REVISÃO: | | |
| | | | 01/Nov/2 (Nov 01,2 | .006 006) | 21 | | | 21/Junho/2018 (Jun 21.2018) | | |
| | | | INFORMAÇ (TE | OES DA PU | BLICAÇÃO TÉC LICATION DATA) | NICA | | (| | |
| DESCRIÇÃO: (DESCRIPTION): | | | D: I): P/N | | | | DATA DA REVISÃO: (REVISION DATE): | | | |
| PWC Maintenance Manual PW545B | | | nual PW545B | 30J2242 | 12/Dez/2003 (Dec 12,2003) | 25.0 | | 14/Maio/2018 (May 14,2018) | | |
| | | | REGISTRO DE | REVISÃO D | | ABALHO | | | | |
| REVISÃO DATA (REVISION) (DATE) | | | | RAZÃO E | DA REVISÃO ON REASON) | | | RESPONSÁVEI (RESPONSABLE) | | |
| 13 27/Julho/15 (July27,15) Revisão da técnic | | | Revisão da fic técnica. (Review the workshee | ha de trabalho Não houve alt | o devido à revisão d rerações do procedi | la publicação mento. | duma) | José Carlos Batista | | |
| 14 | 01/Dez/1 (Dec 01,1 | 5 5) | Revisão da fic técnica. (Review the worksheet | ha de trabalho Não houve alte | o devido à revisão d erações do procedi | a publicação mento. | (une) | José Carlos Batista | | |
| 15 | 14/Julho/ (July 14,20 | 16 <i>16)</i> | Revisão da fic técnica. (Review the worksheet | Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | | | | |
| 16 | 12/Set/16 (Sept 12,1 | 6 <i>6)</i> | Revisão da fic técnica. (Review the worksheet | Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | | | | |
| 17 | 29/Nov/1 (Nov 29,1) | 6 6) | Revisão da fici | na de trabalho técnica. Adic | devido à revisão de cionado item 05. | a publicação | ure) | José Carlos Batista | | |
| 18 | 09/Junho/* (June 09,1 | 17 7) | Revisão da fici técnica. (Review the worksheet | José Carlos Batista | | | | | | |
| 19 | 18/Julho1 (July 18,17 | 7 | Revisão da fich técnica. Incluído o (Review the workshee | na de trabalho p item 30 e o c nos et due to revision d the approval app | devido a revisão da campo de aprovaçã i itens. of technical publishing. A | a publicação o e reprovaçã Added item 30 al | ao nd | José Carlos Batista | | |
| 20 | 04/Out/1 (Oct 04,201 | 7 | Revisão da fich técnica. M (Review the worksheet | a de trabalho Não houve alte | devido à revisão da rações do procedir technical publishing. No | a publicação nento. | | José Carlos Batista | | |
| 21 | 21/Jun/18 (Jun 21,201 | 3 <i>8)</i> | Revisão da fich técnica. N (Review the worksheet | ure) | Gabriel Giaretta Texera | | | | | |
| | | | | APROVA (APPROV | ÇÃO /AL) | | | | | |
| EMITIDO (ISSUED | POR: BY:) | Ga | briel Giaretta Texera | Ass: (Signature |): Gohi, 1 Fro | retta | Dat (Dat | a: 21/Junho/2018 e): (Jun 21,2018) | | |
| PROVADO | D POR: D BY:) | Lu | iz Rogério Fonseca | Ass: Data: 21/Junho/20 (Signature): Data: 21/Junho/20 | | | | | | |

| T/AM | FICHA DE INSPE | A DE TRABAL (WORK SHEET) ÇÃO BOROSCÓF PW 545B CTION REPORT FO | -HO PICA DO MOT | OR 45B) | Folha (Sheet) 2 de (of) 33 |
|---|--|---|----------------------|--------------------------|-------------------------------|
| | | TM 040 | | | No. FT MT-03-06 |
| | INFORMAÇ (COMPO | ÕES DO COMPONEI NENT INFORMATION) | NTE | | |
| Descrição Compon (Part Description) | ente: Matroy 14 | Part Number: (Part Number) | UER | Número d (Serial Numb | e Série: ber) |
| Razão da Inspeção: (Reason of Inspection) | a pedido do clim | Removido da (Removed from p | Posição: osition) | <u>DD01</u> 'A | .60 |
| | INFORMAC (AIRCR) | ÇÕES DA AERONAV | Έ | | |
| Prefixo da Aeronavo (Acft. Reg.) | PP. RSt | S/N Aeronave: (Aircraft S/N) | 560- | 5549 | |
| | ORDI (V | EM DE SERVIÇO VORK ORDER) | | 1015 | |
| O.S. n°: (Work Order n°) | 14332 | Item n°: (Item n°) | OL | | |
| ITEM (Item) | SERVIÇO A EXE (Work to perfo | CUTAR | V | MEC (Mechanic) | INSP (Inspector) |
| | Equipam | entos necessário | OS | (| (inspector) |
| Equipamen (Boroscope e Tubo Guia | to boroscópico com sonda quipment with fiberscope of 5m, PWC44026. | a de 5mm de diâm m diameter or less) | etro ou menoi | | |
| (Guide Tube Puller PWC | <i>PWC44026)</i> | | | | |
| Wrench PWC (Wrench PWC) | /C67699 (67699) | | | | |
| • Fan Wedge (Fan Wedges | s PWC66581. PWC66581) | | | | |
| | | NOTA | | | |

Somente pessoas habilitadas poderão utilizar este equipamento. O equipamento boroscopico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda. (The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and

vulnerable to servere shocks. The fiberscope can be damaged if it is used after engine shutdown)
| TAI | FICHA DE II | FICHA DE TRABALHO (WORK SHEET) NSPEÇÃO BOROSCÓPICA DO I <u>PW 545B</u> INSPECTION REPORT FOR ENGINE | MOTOR PW545B) | Folha (Sheet) 3 de (of) 33 |
|-----------------------------|---------------|---|-------------------|-------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) [| | |
| ITEM (Item) | SERVIÇ (Wo | O A EXECUTAR rk to perform) | MEC (Mechanic) | INSP (Inspector) |

| 01 | Antes de se efetuar a inspeção boroscópica, recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 71-00-00. (It is recommended that a compressor wash be performed in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) | NA | |
|----|--|------|------------|
| | Foi efetuado lavagem? (Compressor wash has been performed?) Sim (Yes) Não (No) | AA | 10000 |
| 02 | Remover o starter do motor conforme instruções do Manual de Manutenção da Aeronave,capitulo 80. (Remove the Starter motor in accordance with Aircraft Maintenance Manual, chapter 80) | NIAN | TEM (113 |
| 03 | Instalar a ferramenta PWC67699 no eixo da gearbox conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) | NIA | Tem fus |
| 04 | Remover o " <i>Cover</i> " para inserir o equipamento boroscopico utilizando a ferramenta PWC30128-6 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (<i>Remove the Cover using the puller PWC30128-6 to install the boroscope</i> <i>probe in accordance with PW545B Maintenance Manual P/N: 30J2242,</i> <i>chapter 72-00-00</i>) | PP | Frint (113 |

| TAN | FICHA DE INS | ICHA DE TRABALHO (WORK SHEET) PEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> ISPECTION REPORT FOR ENGINE PV | DTOR (/545B) | Folha (Sheet) 4 de (of) 33 |
|-----------------------------|--|--|-------------------|-------------------------------|
| 0.0 | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | (Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A (Work to | A EXECUTAR o perform) | MEC (Mechanic) | INSP (Inspector) |
| 05 | onar o "Fan Disk, Nose of the Ring" quanto a danos de Manutenção do Moto o 05-50-00, seção Unsche ge due ingestion PW545B Ma 2242, section Unscheduled Ma | Cone, Fan case, Exit Vane Ring, s devido ingestão conforme o or PW545B P/N: 30J2242, eduled Maintenance Check . n case, Exit Vane Ring, Inlet Vane Ring aintenance Manual aintenance Check 72-30-01) | AA | Transitions |

| 7% | 977 | FICHA DE IN (BOROSCOPE | FICHA DE TRABALH (WORK SHEET) NSPEÇÃO BOROSCÓPIO PW 545B INSPECTION REPORT FOR I | IO CA DO MOTOR ENGINE PW545B) | Folha (Sheet) 5 de (of) 33 |
|----------------|--|---------------------------|--|--------------------------------------|-------------------------------|
| 0.5 ==0 | | | TM 040 | | MT-03-06 |
| (Work Or | der nº) | 94332 | (Item n°) | (| |
| ITEM (Item) | | SERVIÇ((Wol | D A EXECUTAR | MEC (Mecha | inic) inspector) |
| 05 (cont) | Je contraction of the second sec | | | | Transfers |

| 7% | 477 | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) NSPEÇÃO BOROSCÓPICA DO MO PW 545B INSPECTION REPORT FOR ENGINE PV | DTOR V545B) | Folha (Sheet) 6 de (of) 33 |
|-----------------------|---|---|--|-------------------|-------------------------------|
| | | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | der n°) | 94332 | Item n°: (Item n°) | , | |
| ITEM (Item) | | SERVIÇO (Wor | O A EXECUTAR rk to perform) | MEC (Mechanic) | INSP (Inspector) |
| 05 (cont) | Fan G | DESCRIÇÃO DOS (Damag Conhum d'ono la inspeção. sult) provado (Approved) eprovado (Not appro | Pestágio do compressor de alta | M | |
| 06 | pressão, co P/N: 30J224 dimensões (Inspect HP co Maintenance damages and | nforme o Manual 42, capítulo 72-00 encontrados na fig ompressor blade first- Manual P/N: 30J2242 dimensions at the pic | de Manutenção do Motor PW545B -00, e registrar os danos e as gura abaixo. estage in accordance with PW545B chapter 72-00-00, and record the eture below.) | A | and this |

| FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) TM 040 | | | | | Folha (Sheet) 7 de (of) 33 No. FT |
|--|-----------|--------------|---------------|----------------|---|
| O.S. nº: (Work Orde | er nº) 90 | 1332 | Item nº: | | WT-03-00 |
| ITEM (Item) | | SERVIQ (W | CO A EXECUTAR | MEC (Mechan | iic) (Inspector) |
| 06 (cont) | | | | | |

| 73 | FICHA DE IN (BOROSCOPE | FICHA DE TRABALH (WORK SHEET) NSPEÇÃO BOROSCÓPIC <u>PW 545B</u> INSPECTION REPORT FOR E | O A DO MOTOR ENGINE PW545B) | Folha (Sheet) 8 de (of) 33 |
|----------|--|--|--|-------------------------------|
| 0.S. nº: | | TM 040 | | No. FT MT-03-06 |
| (Work Or | der n°) 94332 | (Item n°) | 1 | 19100 |
| (Item) | (Wol | ork to perform) | (Mechanic) | (Inspector) |
| | Resultado da inspeção. (Inspection result) | oved) | AA | TUS |
| 07 | Inspecionar as palhetas do 20 pressão conforme o Manual o P/N: 30J2242, capítulo 72-00 dimensões encontrados na fig (Inspect HP compressor blade seco Maintenance Manual P/N: 30J224 damages and dimensions at the p | ^o estágio do compressor de de Manutenção do Motor P -00, e registrar os danos e gura abaixo. ond-stage in accordance with PV 2, chapter 72-00-00, and record bicture below.) 14:21 20/06/2018 | e alta VW545B as <i>N545B</i> <i>I the</i> <i>M545B</i> | Trains |

| T/A | | FICHA DE TRABALHO (WORK SHEET) CHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> DROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | Folha (Sheet) 9 de (of) 33 |
|--|--|--|-------------------------------|
| | | TM 040 | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) 94332 | | Item n°: (Item n°) | |
| ITEM (Item) | | SERVIÇO A EXECUTAR (Work to perform) MEC (Mechanic | (Inspector) |



| 73 | FICHA (W FICHA DE INSPEÇÃO (BOROSCOPE INSPECT | DE TRABALHO ORK SHEET) O BOROSCÓPICA DO MO PW 545B ION REPORT FOR ENGINE PV | DTOR V545B) | Folha (Sheet) 10 de (of) 33 |
|----------------------|---|--|-------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | der n°) 94332 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A EXECU (Work to perform) | UTAR | MEC (Mechanic) | INSP (Inspector) |
| 07 (cont) | Image: Instance Image: Insthead Image: Insthead | OBSERVADOS tion) | A | TRAIN |
| 08 | Remover o "Bleed Valve" conforme o do Motor PW545B P/N: 30J2242, capír (Remove the Compressor Bleed Valve in acco Maintenance Manual P/N: 30J2242, chapter 7 | Manual de Manutenção tulo 72-00-00. ordance with PW545B 2-00-00) | pp | Trend (1) |
| 09 | Inspecionar o "Impeller" do compresso conforme o Manual de Manutenção do P/N: 30J2242, capítulo 72-00-00, e reg dimensões na figura abaixo. (Inspect HP Compressor Impeller in accordance Manual P/N: 30J2242, chapter 72-00-00, and dimensions at the picture below.) | r de alta pressão Motor PW545B gistrar os danos e as ce with PW545B Maintenance record the damages and | AP | Terin |

| 7% | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR EN | DO MOTOR | Folha (Sheet) 11 de (of) 33 |
|----------------------|---|------------------|--------------------------------|
| | TM 040 | , | No. FT MT-03-06 |
| O.S. nº: (Work Or | : rder n°) 94332 (Item n°) | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic | INSP (Inspector) |
| 09 (cont) | Image: | | Trintlu |
| 10 | Manual de Manutenção do Motor PW545B P/N: 30J2242 capítulo 72-00-00. (Install a new performed packing on the cover removed on the item of accordance with PW545B Maintenance Manual P/N: 30J2242, chap 72-00-00) | D4 in ter | Trantins |
| 11 | Instalar o "Cover" e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the cover and torque the nut in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) | P | Trinflus |

| 77 | 4777 | FICHA DE IN (BOROSCOPE I | FICHA DE TRABA (WORK SHEET) SPEÇÃO BOROSCÓ <u>PW 545B</u> NSPECTION REPORT FO | LHO) PICA DO MOTOR OR ENGINE PW545B | <u>k</u> | Folha (Sheet) 12 de (of) 33 |
|----------------------|---|---|---|--|-----------------|--------------------------------|
| | | | TM 040 | | | No. FT MT-03-06 |
| O.S. nº: (Work Or | rder nº) | 94332 | Item n°: (Item n°) | r | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR to perform) | (M) | MEC echanic) | INSP (Inspector) |
| | Torque= | 23 lb.in | | G | PP | - Signation |
| 12 | Instalar o " torquear co P/N: 30J22 (Install the pl accordance v 72-00-00) Torque= | Plain cover" com a lonforme o Manual d 242, capítulo 72-00- ain cover with the PN fa with PW545B Maintenau 60 lb.in | marcação do PN para e Manutenção do Mot 00. acing out and torque the bo nce Manual P/N: 30J2242, | olts in chapter | gg | ANTE LATA |
| 13 | Instalar a " <i>Bleed valve</i> " removida no item 07 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 75-30-01. (<i>Install the bleed valve removed on item 07 in accordance with PW545B</i> <i>Maintenance Manual P/N: 30J2242, chapter 75-30-01</i>) | | | | 2P | S in Cars |
| 14 | Remover o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual,chapter 74) | | | | MY | - Saltos |
| 15 | Remover o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | | | | 0P | 1.221113 |
| 16 | Remover a Manutençã (Remove the chapter 74) | vela de ignição con io da Aeronave,cap igniter in accordance w | nforme instruções do l itulo 74. vith Aircraft Maintenance l | Manual de Manual, | gp . | 3-19 10.3 |
| | Inspeciona PN: PWC4 PW545B P e as dimen (Inspect the f PW545B Mail the damages | r os bicos de combe 4026 conforme o M /N: 30J2242, capítu sões na figura abai fuel nozzles using the to intenance Manual P/N: and dimensions at the | ustível utilizando a fer anual de Manutenção ilo 72-00-00, e registra xo. ool PN: PWC44026 in acco 30J2242, chapter 72-00-0 picture below.) | ramenta o do Motor ar os danos ordance with 10, and record | M | Tratus |

| 7/ | FICHA DE I | FICHA DE TRABAL (WORK SHEET) NSPEÇÃO BOROSCÓP <u>PW 545B</u> INSPECTION REPORT FOF | HO ICA DO MOTOR R ENGINE PW545B) | Folha (Sheet) 13 de (of) 33 |
|-----------------------|---------------|--|---|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | ier n°) 44332 | ltem n°: (ltem n°) | r | |
| ITEM (Item) | SERVIÇ (Wo | O A EXECUTAR rk to perform) | MEC (Mechanic | :) INSP (Inspector) |
| 17 | <image/> | | | |



| 7/ | 967 | FICHA DE INS (BOROSCOPE IN | ICHA DE TRABA (WORK SHEET SPEÇÃO BOROSCO PW 545B ISPECTION REPORT F | ALHO) ÓPICA DO MO | 7545 B) | Folha (Sheet) 15 de (of) 33 |
|----------------|------------------------------|--------------------------------|--|-----------------------------|-------------------|--------------------------------|
| 0.0 | | | TM 040 | | | No. FT MT-03-06 |
| (Work Or | der nº) | 94332 | (Item n°) | 1 | | |
| ITEM (Item) | | SERVIÇO / (Work t | A EXECUTAR to perform) | | MEC (Mechanic) | INSP (Inspector) |
| 18 | accordance v 72-00-00, an | | ce Manual P/N: 30J224 d dimensions at the pice 43:50 20/06/201 | 2, chapter sture below.) | AA | |

| 77 | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA DO MOT <u>PW 545B</u> INSPECTION REPORT FOR ENGINE PW5 | TOR 5458) | Folha (Sheet) 16 de (of) 33 |
|----------------------|---|--|---|--------------------------------|
| | | TM 040 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | No. FT MT-03-06 |
| O.S. nº: (Work Or | der nº) 94332 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO (Work | A EXECUTAR to perform) | MEC (Mechanic) | INSP (Inspector) |
| 18 (cont) | DESCRIÇÃO DO DESCRIÇÃO DO DESCRIÇÃO DO Damage Observais queimas Caibon build - up. Mentram punho pol manual · Confeirin obse Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not appro | ENTER / SUPPORT PIN BOSS FUEL NOZZLE BOSS FUEL NOZZLE BRACKET FUEL NOZZLE COLLAR NER LINER S DANOS OBSERVADOS es description) Locals (Local BURN) e Portion or mesmos Gr Lim, tos Accifkicis Ds envagoer na p3.3433. | P | Trintlus |
| 19 | Inspecionar a "Vane" da turbin utilizando a ferramenta PN: PN Manutenção do Motor PW545 72-00-00, e registrar os danos (Inspect the First Stage HP Turbine accordance with PW545B Maintenau 72-00-00, and record the damages a | ha de alta pressão do 1º estágio NC44026 conforme o Manual de B P/N: 30J2242, capítulo e e as dimensões na figura abaixo. Vane using the tool PN: PWC44026 in Ince Manual, P/N: 30J2242, chapter and dimensions at the picture below.) | PP | Presidentius |

| 73 | - | FICHA DE IN (BOROSCOPE | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA <u>PW 545B</u> INSPECTION REPORT FOR ENO TM 040 | DO MOTOR GINE PW545B) | Folha (Sheet) 17 de (of) 33 No. FT |
|-----------------------|-----------|----------------------------|--|---------------------------|--|
| O.S. nº: (Work Ord | der nº) 9 | 1332 | Item nº: (Item nº) | | WIT-03-06 |
| ITEM (Item) | | SERVIÇC (Wor | D A EXECUTAR k to perform) | MEC (Mechanic | (Inspector) |
| 19 (cont) | | | | | |

| TAR | FICHA DE INS | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | Folha <i>(Sheet)</i> 18 de <i>(of)</i> 33 |
|-----------------------------|----------------------|--|------------------|--|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Order nº) | 94332 | Item nº: (Item nº) | | |
| ITEM (Item) | SERVIÇO A (Work t | o perform) (1 | MEC Mechanic) | INSP (Inspector) |



| 7% | 977 | FICHA DE INS | FICHA DE TRABA (WORK SHEET) SPEÇÃO BOROSCÓ PW 545B NSPECTION REPORT FO | LHO PICA DO MOTOR |) F | Folha (Sheet) 19 de (of) 33 |
|-----------------------|---|---|--|--|-----------------|---------------------------------------|
| | | | TM 040 | | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | dern°) 90 | 1332 | Item n°: (Item n°) | 1 | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR to perform) | (Me | NEC echanic) | INSP (Inspector) |
| | Resultado d (Inspection res Ap | a inspeção. sult) rovado (Approved) eprovado (Not approv | ved) | Ø | P | · · · · · · · · · · · · · · · · · · · |
| 20 | Inspecionar ferramenta I de Manuten 72-00-00, e (Inspect the Fi and PWC6769 P/N: 30J2242, the picture bell | a palheta do 1º es PN: PWC67699 e H ção do Motor PW5 registrar os danos rst Stage HP Turbine H chapter 72-00-00, and ow.) | tágio da turbina utiliza PWC44026 conforme 645B P/N: 30J2242, ca e as dimensões na fig Blades using the tool PN: I PW545B Maintenance Mai d record the damages and 14:40 20/06/2018 | ando a e o Manual apítulo gura abaixo. PWC44026 nual dimensions at | DD. | |

| TAR | FICHA DE INS | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | Folha (Sheet) 20 de (of) 33 |
|-----------------------------|----------------------|--|-------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) | | |
| ITEM (Item) | SERVIÇO A (Work t | A EXECUTAR o perform) | MEC (Mechanic) | INSP (Inspector) |



| 77 | FICHA (BOROS | FICHA DE TRABAL (WORK SHEET) DE INSPEÇÃO BOROSCÓP PW 545B SCOPE INSPECTION REPORT FOR | HO ICA DO MOTOR | Folha (Sheet) 21 de (of) 33 |
|---------------------|--|---|--|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº (Work Or | rder n°) 44332 | Item n°: (Item n°) | 1 | |
| ITEM (Item) | SI | ERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| | DESCRIÇÃO (1) Observino (2) (onferir observino) Resultado da inspeção. (Inspection result) Aprovado (Apple) Reprovado (No | point approved) | s AP | |
| 21 | Inspecionar o "Liner" do ferramenta PN: PWC44 do Motor PW545B P/N: os danos e as dimensõe (Inspect the First Stage HP T PN: PWC44026 in accordand P/N: 30J2242, chapter 72-00 the picture below.) | 1º estágio da turbina utilizand 026 conforme o Manual de Ma 30J2242, capítulo 72-00-00, e es na figura abaixo. Furbine Liner Segments using the too ce with PW545B Maintenance Manu 0-00, and record the damages and di | lo a anutenção e registrar ol al imensions at | Termina |

| 7/ | 9777 | FICHA DE IN (BOROSCOPE I | FICHA DE TRABALHO (WORK SHEET) SPEÇÃO BOROSCÓPICA D <u>PW 545B</u> NSPECTION REPORT FOR ENGI | O MOTOR | Fo 22 | olha <i>(Sheet)</i> 2 de <i>(of)</i> 33 |
|-----------------------|---|--|--|-----------------|----------|--|
| | | | TM 040 | / | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | der nº) | 94332 | Item nº: (Item nº) | | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR to perform) | MEC (Mechani | ic) | INSP (Inspector) |
| 21 (comt) | Resultado (Inspection m | DESCRIÇÃO DOS I (Damage Jenhum don da inspeção. esult) provado (Approved) Reprovado (Not approv | ved) | | 2 | Train 1 |
| 22 | Inspeciona Manual de capítulo 72 figura abai (Inspect the PW545B Ma the damages | ar a "Vane Ring" do 2 Manutenção do Mo 2-00-00, e registrar o xo. Second Stage LP Turbin intenance Manual P/N: and dimensions at the | 2º estágio da turbina conform tor PW545B P/N: 30J2242, os danos e as dimensões na ne Vane Ring in accordance with 30J2242, chapter 72-00-00, and re picture below.) | cord | 2 | trantin's |

| 741 | FICHA DE INS | HA DE TRABALHO (WORK SHEET) <u>EÇÃO BOROSCÓPICA DO MOTOR</u> <u>PW 545B</u> PECTION REPORT FOR ENGINE PW545B) FOIha (Sheet) 23 de (of) 33 |
|-----------------------------|-----------------------|---|
| | | TM 040 No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) / |
| ITEM (Item) | SERVIÇO A (Work to | XECUTAR MEC INSP erform) (Mechanic) (Inspector) |





| 7/ | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) ISPEÇÃO BOROSCÓPICA DO M <u>PW 545B</u> INSPECTION REPORT FOR ENGINE I | <u>10TOR</u> 2W545B) | Folha (Sheet) 25 de (of) 33 |
|-----------------------|---|--|--------------------------|--------------------------------|
| | | TM 040 | , | No. FT MT-03-06 |
| O.S. nº: (Work Ord | dern°) 94332 | Item n°: (Item n°) / | | |
| ITEM (Item) | SERVIÇO (Wor | A EXECUTAR k to perform) | MEC (Mechanic) | INSP (Inspector) |
| 24 (cont) | LEADING EDGE LEADING EDGE DESCRIÇÃO DOS (Damag) Nenhum Nenhum Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not appro Inspecionar a palheta do 3º e | OUTER SHROUD OUTER SHROUD AREA IN AREA IN MER SHROUD DANOS OBSERVADOS es description) M entontham Mentonth | PA | |
| 25 | Manual de Manutenção do Mo capítulo 72-00-00, e registrar figura abaixo. | otor PW545B P/N: 30J2242, os danos e as dimensões na | P | 家舗しいろ |

| 74 | FICHA DE TRABA (WORK SHEET FICHA DE INSPEÇÃO BOROSCO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT F | ALHO) ÓPICA DO MOTOR FOR ENGINE PW545B) | Folha (Sheet) 26 de (of) 33 |
|------------------------|---|--|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Orde | er n°) 9433 2 (Item n°) | 1 | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic | (Inspector) |
| 25 (cont) | (Inspect the Third Stage LP Turbine Blades in accordance wi Maintenance Manual P/N: 30J2242, chapter 72-00-00, and re damages and dimensions at the picture below.) | out OOS | Territor |
| 26 | Manual de Manutenção do Motor PW545B P/N: 30. capítulo 72-00-00, e registrar os danos e as dimens | J2242, Joes na | Printlu's |

| 7/ | 9777 | FICHA DE (WOR FICHA DE INSPEÇÃO E (BOROSCOPE INSPECTION | E TRABA RK SHEET) BOROSCÓ BOROSCÓ I REPORT FO | LHO PICA DO MO | TOR 545B) | Folha (Sheet) 27 de (of) 33 |
|----------------|--|---|--|-------------------|----------------------|--------------------------------|
| | | r | ⁻ M 040 | | | No. FT MT-03-06 |
| (Work Or | der nº) l | 4332 | Item n°: (Item n°) | 1 | | |
| ITEM (Item) | | SERVIÇO A EXECUTA (Work to perform) | AR | | MEC (Mechanic) | INSP (Inspector) |
| 26 (cont) | figura abai (Inspect the I with PW545E record the da Resultado o (Inspection re Ar | KO. Ring Vane from Fourth Stage LP Turner Maintenance Manual P/N: 30J2242 mages and dimensions at the picture LEADING EDGE DESCRIÇÃO DOS DANOS OB (Damages description) Deschum dans a Janhum dans a Janhum dans a | bine Vane in a c, chapter 72-0 e below.) UTER SHROUD TRAILING EDGE | S | A | |

| 77 | 777 | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) ISPEÇÃO BOROSCÓPICA DO <u>PW 545B</u> INSPECTION REPORT FOR ENGINE | MOTOR PW545B) | Folha (Sheet) 28 de (of) 33 |
|---------------------|---|--|--|------------------|--------------------------------|
| | | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: Work Or | der n°) 94 | 332 | Item n°: (Item n°) | | |
| ITEM (Item) | | SERVIÇO (Work | A EXECUTAR k to perform) | MEC (Mechanic | c) INSP (Inspector) |
| 27 | Inspecionar a Manual de Ma capítulo 72-00 figura abaixo. (Inspect the Four Maintenance Ma damages and dia | palheta do 4º es anutenção do Mo 0-00, e registrar o rth Stage LP Turbino mensions at the pict | stágio da turbina conforme o otor PW545B P/N: 30J2242, os danos e as dimensões na e Blades in accordance with PW 545B chapter 72-00-00, and record the ture below.) 15:05 20//06//2018 | A | |



| 7/ | FICHA DE I | FICHA DE TRABALH (WORK SHEET) NSPEÇÃO BOROSCÓPIC <u>PW 545B</u> INSPECTION REPORT FOR E | O A DO MOTOR ENGINE PW545B) | Folha (Sheet) 30 de (of) 33 |
|----------------|--|--|--|--------------------------------|
| | | TM 040 | | NO. FT MT-03-06 |
| (Work Or | dern°) 94332 | (Item n°) | / | |
| ITEM (Item) | SERVIÇ (Wa | O A EXECUTAR rk to perform) | MEC (Mechanic | (Inspector) |
| 28 (cont) | (Inspect the Fuel Shut-off Mechani Maintenance Manual P/N: 30J224, damages and dimensions at the tar | ism in accordance with PW545B 2, chapter 72-00-00, and record in ble below.) 15:06 20/06/2018 | the Arrow of the second s | |

| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW | TOR (545B) | Folha (Sheet) 31 de (of) 33 |
|-----------------------|---|----------------------|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | ler n°) 94332 [Item n°: (Item n°) / | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic |) (Inspector) |
| 28 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Nenhum Jano enconficaso Nenhum Jano enconficaso Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) | ØP | (TABITI 1) |
| 29 | Inspecionar o "Intermediate Case" utilizando a ferramenta PN: PWC66581 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) DESCRIÇÃO DOS PE Connosav Confense observações na pç -32/33 Resultado da inspeção. (Inspection result) | AP | (V) (11) |
| 29 (cont) | Aprovado (Approved) Reprovado (Not approved) | | |
| 30 | Inspecionar os " <i>Diffuser Ducts</i> " conforme o Manual de Manutenção do motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Diffuser Ducts in accordance with PW545B Maintenance Manual, P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) | PP | (TELE (11) |

| FICHA DE IN (BOROSCOPE | | FICHA DE TRABALHO (WORK SHEET) INSPEÇÃO BOROSCÓPICA DO MOTO PW 545B PE INSPECTION REPORT FOR ENGINE PW5455 | R 3) | Folha (Sheet) 32 de (of) 33 |
|---------------------------------------|-----------|--|------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Order) | nº) 94332 | Item n°: (Item n°) | | |
| ITEM SERVIÇO A E (Item) (Work to p | | IÇO A EXECUTAR Work to perform) (A | MEC lechanic) | INSP (Inspector) |

O componente/aeronave descrito acima foi considerado: (The part/aircraft described above is:)



Aprovado (Approved)

Reprovado (Not approved)

Observação (Remarks):

queimas Locais & DEDOSITOS DE CARBOND OBSERVADOS CAMARA DE COMPUSTAD ESTAD DENTRO DOL LINITES ACCITAVEIS DO MANUAL conforme fABELA 605. Do M.M. PULC 545 B Cal. 72 00 00 FASpection trinca observada NA VARE DE HOT h40 ImA Minia Convengente e sim uma trinea capilar DectA MESMA chantera DUMD Aceitaveis Do manual conforme tABELA 608 Do m.m. PWC 545 B CAP. 72.00.00 INSpection Observars pontos of Corposas No Intermediate cas Conforme LABELA 617 DD M. m PWC 54513 Cap 72.00. Inspection, Recommenda-se una programação Regular LAVAREM COMPINION COM INIBNIDON DE CONIZOSAU. ISSO AVANGO (PIZOGNESSAD) DA (ONROSAD. pheving O

| TAR | FICHA DE IN | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | Folha (Sheet) 31 de (of) 33 | |
|---|-------------|--|---------------------|--------------------------------|--|
| | | TM 040 | | No. FT MT-03-06 | |
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) | | | |
| ITEM SERVIÇO A EXECUTAR ME (Item) (Work to perform) (Mecha | | MEC (Mechanic) | INSP (Inspector) | | |

| 30 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Nenhum No Encontraco Nenhum No Encontraco Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) | P | TERMIN |
|--------------|--|-----------|----------|
| 31 | Remover as ferramentas PWC67699,PWC30128-6, PWC44026,PWC66581 instaladas anteriormente. (<i>Remove the Tooling PWC67699,PWC30128-6,PWC44026,PWC66581</i> <i>installed before</i>) | PP | 171.7115 |
| 32 | Instalar o starter removido do item 02 conforme instruções do Manual de Manutenção da Aeronave,capitulo 80. (Install the starter motor in accordance with Aircraft Maintenance Manual, chapter 80) | CP NIA | JIA |
| 33 | Instalar a vela de ignição conforme instruções do Manual de Manutenção da Aeronave capitulo 74. (Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74) | PP | Trantus |
| 34 | Instalar o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Install the plug on the exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | P | presso |
| 35 | Instalar o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave,capitulo 74. (Install the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | P | en jus |

| ITEM SERVIÇO (Item) (Work | | A EXECUTAR to perform) | MEC (Mechanic | c) (Inspector) |
|--------------------------------------|--|---------------------------|--------------------------------|--------------------|
| O.S. n°: (Work Order n°) 9 | 4332 | Item n°: (Item n°) | | |
| | | TM 040 | | No. FT MT-03-06 |
| | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | Folha (Sheet) 33 de (of) 33 | |

"Foi observaor conting Loss has BLADER DE HIPT AS MESMAS se encontram dentro por limites recitaveis Dollem O MOTOR DEVE SEIR inspecionas novamento Apos 600 Honas Conforma taisua 609 00 m.m. CAD. 72.00.00 PWC 545B INSPECTION .

Saulo Lisboa Vielra Inspetor Código ANAC: Nº 11425-9 100

19/06/13 Data

Assinatura e Carimbo do Inspetor (Inspector Signature and Stamp)

Data (Date)

| FICHA DE IRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | | | | <u>OR</u> 5B) | Folha <i>(Sheet)</i> 1 de <i>(of)</i> 22 | | |
|--|---|------------------|--|--|---|---|------------------|--|
| | | | | Т | TM 040 | | | No. FT MT-03-06 |
| | | | INFORMAÇ | ÕES DA FI | CHA DE TRABA | LHO | | |
| NÚMEI (SHE | RO DA FIO | CHA R) | EMISSÃO ORIO (ORIGINAL ISS | GINAL: | REVISÃO: (REVISION): | | DATA | DA REVISÃO: |
| M | IT-03-06 | | 01/Nov/200 (Nov 01,200 |)6 5) | 21 | | 2 | 1/Junho/2018 Jun 21,2018) |
| | | | INFORMAÇÕ (TECH | ES DA PU | BLICAÇÃO TÉC LICATION DATA) | NICA | | |
| | DESC (DESC | RIÇİ | ÃO: DN): | P/N: | EMISSÃO ORIGINAL: (ORIGINAL ISSUE:) | REVISÃO (REVISION). | ; () | DATA DA REVISÃO: REVISION DATE): |
| PWC M | aintenanc | e Ma | anual PW545B | 30J2242 | 12/Dez/2003 (Dec 12,2003) | 25.0 | | 14/Maio/2018 (May 14,2018) |
| | | | REGISTRO DE R (INSTRUCTION | EVISÃO D. I WORK SHE | A FICHA DE TRA | BALHO | | |
| REVISÃO (REVISION) | DATA (DATE | A | | RAZÃO D | DA REVISÃO DN REASON) | | 1 | RESPONSÁVEL (RESPONSABLE) |
| 13 | 13 27/Julho/15 (July27,15) Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | | | José Carlos Batista | | |
| 14 | 01/Dez/ (Dec 01, | 15 15) | Revisão da ficha técnica. Nã | de trabalho io houve alte | devido à revisão d erações do procedi | a publicação mento. | dure) | José Carlos Batista |
| 15 | 14/Julho (July 14,2 | /16 016) | Revisão da ficha técnica. Nã | de trabalho o houve alte | devido à revisão da erações do procedir | o change proced a publicação mento. | dure) | José Carlos |
| 16 | 12/Set/ (Sept 12, | 16 <i>16)</i> | Revisão da ficha técnica. Nã | de trabalho o houve alte | devido à revisão da rações do procedir | o change proced a publicação mento. | lure) | José Carlos |
| 17 | 29/Nov/ (Nov 29, | 16 16) | Revisão da ficha | de trabalho écnica. Adici | technical publishing. No devido à revisão da ionado item 05. | o change proced a publicação | lure) | José Carlos |
| 18 | 09/Junho (June 09, | /17 17) | Revisão da ficha técnica. Nã | de trabalho o houve alte | on of technical publishing devido à revisão da rações do procedir | g.Added item 5) a publicação mento. | | José Carlos |
| 19 | 18/Julho <i>(July 18,1</i> | 17 7) | Revisão da ficha técnica. Incluído o it | e to revision of de trabalho em 30 e o ca nos ue to revision o | technical publishing. No devido a revisão da ampo de aprovação itens. f technical publishing. A | change proced a publicação o e reprovaçã dded item 30 ai | ure) ão nd | José Carlos Batista |
| 20 04/Out/17 (Oct 04,2017) Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | | José Carlos | | | | |
| 21 21/Jun/18 (Jun 21,2018) (Review the worksheet due to revision of technical publishing. No change procedure) Revisão da ficha de trabalho devido à revisão da publicação técnica. Não houve alterações do procedimento. | | | ure) | Babriel Giaretta Texera | | | | |
| | | | | APROVA | ÇÃO | unange procedu | ire) | |
| EMITIDO I (ISSUED E | POR: BY:) | Ga | briel Giaretta Texera | Ass: (Signature) | . John 1 70 | netta- | Data: (Date): | 21/Junho/2018 (Jun 21,2018) |
| APROVADO (APPROVEL | D POR: D BY:) | Li | uiz Rogério Fonseca | Ass: (Signature) | | | Data: (Date): | 21/Junho/2018 (Jun 21,2018) |

| FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | | | Folha (Sheet) 2 de (of) 35 | |
|--|---|---|---|-------------------------------|-----------------------------------|
| | | | TM 040 | | No. FT MT-03-06 |
| | | INFORMAÇÕE (COMPONE | S DO COMPONENTE NT INFORMATION) | | |
| Descrie (Part Des Razão | ção Componente: scription) Motor da Inspeção: | RH | Part Number: (Part Number) 545B Removido da Posição: | Númer (Serial N PCE | o de Série: umber) - DDO164 |
| (Reason | of Inspection) (plain | INFORMAÇÕ | ES DA AERONAVE | NIA | |
| Prefixo (Acft. Re | eg.) PP- | RST | S/N Aeronave: (Aircraft S/N) 560 | -557 | :9 |
| | | ORDEN (WO | I DE SERVIÇO RK ORDER) | | |
| O.S. nº (Work O | 94336 | 2 | Item nº: 01 | | |
| ITEM (Item) | | SERVIÇO A EXEC (Work to perform | UTAR | MEC (Mechan | INSP (Inspector) |
| | | Equipamer | ntos necessários | | |
| • | Equipamento boroscó (Boroscope equipment with Tubo Guia PWC4402 | ppico com sonda o th fiberscope of 5mm 6. | de 5mm de diâmetro ou r diameter or less) | nenor. | |
| | (Guide Tube PWC44026) Puller PWC30128-6. (Puller PWC30128-6) | | | | |
| ٠ | Wrench PWC67699 (Wrench PWC67699) | | | | |
| ٠ | Fan Wedges PWC66581) | 581. | | | |
| | | | | | |

NOTA:

Somente pessoas habilitadas poderão utilizar este equipamento.

O equipamento boroscopico poderá se danificar caso seja submetido a altas temperaturas ou a quedas. Evite utilizar o equipamento imediatamente após o desligamento do motor para evitar danos a sonda.

(The inspection must be performed only by experienced personnel. The boroscope equipment is a delicate device and vulnerable to servere shocks. The fiberscope can be damaged if it is used after engine shutdown)

| FICHA DE I | | INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> PE INSPECTION REPORT FOR ENGINE PW545B) TM 040 | | Folha (Sheet) 3 de (of) 35 No. FT | |
|-----------------------------------|-------|---|-------------------|---|--|
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) O1 | 1 | | |
| ITEM SERVIÇO A (Item) (Work to | | A EXECUTAR (to perform) | MEC (Mechanic) | INSP (Inspector) | |

| 01 | Antes de se efetuar a inspeção boroscópica, recomenda-se efetuar a lavagem do compressor conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 71-00- 00. (It is recommended that a compressor wash be performed in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 71-00-00 prior to carrying out a borescope inspection.) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Foi efetuado lavagem? (Compressor wash has been performed?) Sim (Yes) Não (No) | N/A M | MA |
|----|--|----------|-----------------|
| 02 | Remover o starter do motor conforme instruções do Manual de Manutenção da Aeronave,capitulo 80. (Remove the Starter motor in accordance with Aircraft Maintenance Manual, chapter 80) | NIA | NIA |
| 03 | Instalar a ferramenta PWC67699 no eixo da gearbox conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (Install the PWC67699 on the starter motor gearshaft in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) | NIA | N/A Tranting |
| 04 | Remover o " <i>Cover</i> " para inserir o equipamento boroscopico utilizando a ferramenta PWC30128-6 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00 (<i>Remove the Cover using the puller PWC30128-6 to install the boroscope</i> <i>probe in accordance with PW545B Maintenance Manual P/N: 30J2242,</i> <i>chapter 72-00-00</i>) | P | Ban (115 |

| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR EL | D A DO MOTOR NGINE PW545B) | Folha (Sheet) 4 de (of) 35 |
|----------------------|--|--|-------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | der n°) 94332 [tem n°: (Item n°) 01 | 1 | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) |) INSP (Inspector) |
| 05 | Inspecionar o "Fan Disk, Nose Cone, Fan case, Exit Vane Ring Vane Ring" quanto a danos, devido ingestão, conforme o Man Manutenção do Motor PW545B P/N: 30J2242, capítulo 05-50- seção Unscheduled Maintenance Check. (Inspect the Fan Disk, Nose Cone, Fan case, Exit Vane Ring, I Vane Ring for damage due ingestion PW545B Maintenance M P/N: 30J2242, section Unscheduled Maintenance Check 72-30- | g, Inlet ual de -00, nlet (anual -01) Ring | |




















| 7/ | FICHA DE (WORI FICHA DE INSPEÇÃO B (BOROSCOPE INSPECTION | TRABA K SHEET OROSCÓ 1545B REPORT F | LHO) PICA DO MO OR ENGINE PW | TOR 545B) | Fo 12 | lha (Sheet) de (of) 35 |
|------------------------|---|---|---|----------------------|-----------------|---------------------------|
| | TI | W 040 | | | 1 | No. FT MT-03-06 |
| O.S. nº: (Work Orde | erno) 94332 | tem n°: Item n°) | OL | | | |
| ITEM (Item) | SERVIÇO A EXECUTA (Work to perform) | R | | MEC (Mechanic | c) | INSP (Inspector) |
| 08 | Remover o "Bleed Valve" conforme o Man do Motor PW545B P/N: 30J2242, capítulo (Remove the Compressor Bleed Valve in accordar Maintenance Manual P/N: 30J2242, chapter 72-00 | ual de Ma 72-00-00 nce with PW 0-00) | anutenção /545B | PP | | TEAT (11) |
| 09 | Inspecionar o "Impeller" do compressor de conforme o Manual de Manutenção do Mo P/N: 30J2242, capítulo 72-00-00, e registr dimensões na figura abaixo. (Inspect HP Compressor Impeller in accordance w Manual P/N: 30J2242, chapter 72-00-00, and recordimensions at the picture below.) | e alta pres otor PW54 rar os dan with PW545E ord the dama SERVAD | os e as <i>A Maintenance</i> <i>Ages and</i> OS <i>Addo</i> | At | 2 | |

| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PWS | TOR 545B) | Folha (Sheet) 13 de (of) 35 |
|----------------------|---|-------------------|--------------------------------|
| | TM 040 | / | No. FT MT-03-06 |
| O.S. nº: (Work Or | ter n°) 94332 Item n°: (Item n°) 0.L | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 10 | Instalar novo o'ring no cover removido do item 04 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install a new performed packing on the cover removed on the item 04 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) | PP | (TEM (1): |
| 11 | Instalar o " <i>Cover</i> " e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the cover and torque the nut in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) Torque= 2.3 Ib.in | PP | (113) |
| 12 | Instalar o " <i>Plain cover</i> " com a marcação do PN para cima e torquear conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00. (Install the plain cover with the PN facing out and torque the bolts in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00) Torque= 60 lb.in | A | 2 |
| 13 | Instalar a " <i>Bleed valve</i> " removida no item 07 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 75-30-01. (<i>Install the bleed valve removed on item 07 in accordance with PW545B</i> <i>Maintenance Manual P/N: 30J2242, chapter 75-30-01</i>) | P | (T-37)[113 |
| 14 | Remover o plug da caixa de ignição conforme instruções do Manual de Manutenção da Aeronave, capitulo 74. (Disconnect the igniter conector from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | Øf | 2 State (1) |
| 15 | Remover o cabo de ignição conforme instruções do Manual de Manutenção da Aeronave, capitulo 74. (Disconnect the igniter cable from exciter box in accordance with Aircraft Maintenance Manual, chapter 74) | A | 2 注意了い; |
| 16 | Remover a vela de ignição conforme instruções do Manual de Manutenção da Aeronave, capitulo 74. (Remove the igniter in accordance with Aircraft Maintenance Manual, chapter 74) | Pf | 2 Trailly |





| 7/ | 9777 | FIC FICHA DE INSP (BOROSCOPE INS | CHA DE (WORK PEÇÃO BO PW PECTION R | TRABALHC SHEET) PROSCÓPICA 545B EPORT FOR EN | | TOR 545B) | Fo 16 | Iha (Sheet) de (of) 35 |
|----------|---|---|--|--|--------------------------------|----------------------|-----------------|---------------------------|
| 0.S. nº: | | 20.0 | TM | 040 | , | | 1 | NO. FT WT-03-06 |
| Work Or | rder n°) 99 | 332 | (11 | em n°) | L | | | |
| (Item) | | SERVIÇO A (Work to) | EXECUTAR perform) | | | MEC (Mechanic | , | INSP (Inspector) |
| 18 | Inspecionar os ferramenta PN do Motor PW5 os danos e as (Inspect Combus accordance with 72-00-00, and red | "Liners" da Câma PVVC44026 confe 45B P/N: 30J2242 dimensões na figu tion Chamber Liner us PV545B Maintenance cord the damages and 16 | ra de Com orme o Ma , capítulo 7 ra abaixo. ing the tool F Manual P/N dimensions | bustão utilizar nual de Manur 2-00-00, e res 2N: PWC44026 ir 30J2242, chapt at the picture bel 6/2018/ | ndo a gistrar er ow.) | A | | |

| 7% | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA E <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGL | DO MOTOR | Folha (Sheet) 17 de (of) 35 |
|----------------------|--|--|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | der n°) 94332 Item n°: (Item n°) OL | - | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 18 (cont) | Internet support Part Boss OUTER LINER OUTER LINER | | |
| 19 | Inspecionar a "Vane" da turbina de alta pressão do 1º estág utilizando a ferramenta PN: PWC44026 conforme o Manua Manutenção do Motor PW545B P/N: 30J2242, capítulo 72- 00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Vane using the tool PN: PWC4402 accordance with PW545B Maintenance Manual, P/N: 30J2242, chapte 72-00-00, and record the damages and dimensions at the picture below | gio I de 00- 16 in r v.) M | 了 注意了 Li |







| 77 | (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW | TOR (545B) | Folha (Sheet) 20 de (of) 35 |
|---------------------|--|-------------------|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| D.S. nº: Work Or | der n°) 94332 Item n°: (Item n°) 01 | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 19 (cont) | Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) | P | TEM |
| 20 | Inspecionar a palheta do 1º estágio da turbina utilizando a ferramenta PN: PWC67699 e PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Blades using the tool PN: PWC44026 and PWC67699 in accordance with PW545B Maintenance Manual PN: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | AP | |

| TA | FICHA DE II | FICHA DE TRABALHO (WORK SHEET) NSPEÇÃO BOROSCÓPICA DO MOT <u>PW 545B</u> INSPECTION REPORT FOR ENGINE PW5 | TOR (45B) | Folha (Sheet) 21 de (of) 35 |
|-----------------------------|---------------|---|-------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | Item n°: (Item n°) OL | | |
| ITEM (Item) | SERVIÇ (Wo | D A EXECUTAR rk to perform) | MEC (Mechanic) | INSP (Inspector) |



| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW) | <u>TOR</u> 545B) | Folha (Sheet) 22 de (of) 35 |
|----------------------|--|---------------------|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | ter n°) 94332 Item n°: (Item n°) 01 | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 21 | Inspecionar o " <i>Liner</i> " do 1º estágio da turbina utilizando a ferramenta PN: PWC44026 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the First Stage HP Turbine Liner Segments using the tool PN: PWC44026 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Mandum damo macentrado. Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) | AP | |
| | | / | |

| 73 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE | MOTOR 2 PW545B) | olha (Sheet) 3 de (of) 35 |
|---------------------|--|---------------------|------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº (Work Or | : rder n°) 94332 Item n°: (Item n°) 01 | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 22 | Inspecionar a "Vane Ring" do 2º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Second Stage LP Turbine Vane Ring in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | A | |
| 23 | Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Second Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) | PP | Teamus |





| 73 | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PM | OTOR | Folha (Sheet) 26 de (of) 35 |
|---------------------|---|-------------------|--------------------------------|
| | TM 040 | V040D) | No. FT MT-03-06 |
| O.S. nº (Work Or | der n°) 94332 Item n°: (Item n°) 01 | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 25 | Inspecionar a palheta do 3º estágio da turbina conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar os danos e as dimensões na figura abaixo. (Inspect the Third Stage LP Turbine Blades in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the picture below.) Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the picture below. Image: Control of the transmission of the transmiss | PP | |

| 77 | (WO) FICHA DE INSPEÇÃO (BOROSCOPE INSPECTIO | RK SHEET) BOROSCÓPICA DO MO W 545B N REPORT FOR ENGINE PW3 | TOR 545B) | Folha (Sheet) 27 de (of) 35 |
|----------------------|--|---|----------------------|--------------------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Or | der n°) 94332 | Item n°: (Item n°) OL | | |
| ITEM (Item) | SERVIÇO A EXECUT (Work to perform) | AR | MEC (Mechanic) | INSP (Inspector) |
| 26 | Inspecionar a " <i>Ring Vane</i> " do 4º estágio Manual de Manutenção do Motor PW54: capítulo 72-00-00, e registrar os danos e figura abaixo. (<i>Inspect the Ring Vane from Fourth Stage LP Tu</i> <i>with PW545B Maintenance Manual P/N: 30J224</i> record the damages and dimensions at the pictur LEADING EDCE DESCRIÇÃO DOS DANOS O (Damages description Manhum dama Manhum da | da turbina conforme o 5B P/N: 30J2242, a as dimensões na urbine Vane in accordance 2, chapter 72-00-00, and re below.) UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | A | |





| 7/ | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW | TOR 545B) | Folha (Sheet) 30 de (of) 35 |
|-----------------------|---|-------------------|--------------------------------|
| | TM 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Ord | ler n°) 94332 Item n°: (Item n°) OL | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 28 (cont) | DESCRIÇÃO DOS DANOS OBSERVADOS (Damages description) Damages description) Damade da inspeção. (Inspection result) Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) | A | Test (11) |
| 29 | Inspecionar o "Intermediate Case" utilizando a ferramenta PN: PWC66581 conforme o Manual de Manutenção do Motor PW545B P/N: 30J2242, capítulo 72-00-00, e registrar na tabela abaixo os danos encontrados. (Inspect the Intermediate Case using the tool PN: PWC66581 in accordance with PW545B Maintenance Manual P/N: 30J2242, chapter 72-00-00, and record the damages and dimensions at the table below.) | AP | TEM 113 |

| 7% | FICHA DE 1 (WORK FICHA DE INSPEÇÃO BO PW 5 (BOROSCOPE INSPECTION RE | RABALHO SHEET) ROSCÓPICA DO MO 545B EPORT FOR ENGINE PW |)TOR /545B) | Folha (Sheet) 31 de (of) 35 |
|------------------------|---|--|------------------------|--------------------------------|
| | ТМ | 040 | | No. FT MT-03-06 |
| O.S. nº: (Work Orde | rn°) 94332 Iter (/te | $m n^{\circ}$: $O \perp$ | | |
| ITEM (Item) | SERVIÇO A EXECUTAR (Work to perform) | | MEC (Mechanic, | (Inspector) |
| | DESCRIÇÃO DOS DANOS OF (Damages description) | BSERVADOS | | |
| 29 (cont) | Observações nas página Resultado da inspeção. (Inspection result) | as 33 e 34 | PP | 1 and |
| 30 | Inspecionar os " <i>Diffuser Ducts</i> " conforme of Manutenção do motor PW545B P/N: 30J224 72-00-00, e registrar na tabela abaixo os da (Inspect the Diffuser Ducts in accordance with PW54 Manual, P/N: 30J2242, chapter 72-00-00, and record dimensions at the table below.) DESCRIÇÃO DOS DANOS OF (Damages description) | Manual de 42, capítulo nos encontrados. 5B Maintenance the damages and BSERVADOS | PP | Trang (1); |
| 24 | Resultado da inspeção. (Inspection result) Aprovado (Approved) Reprovado (Not approved) Remover as ferramentas PWC67699,PWC3 PWC44026.PWC66581 instaladas anteriorn | 0128-6, pente. | 00 | |
| 31 (i | (Remove the Tooling PWC67699,PWC30128-6,PWC Installed before) | 244026,PWC66581 | 4 | Triff(1) |

| FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE TM 040 | | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA <u>PW 545B</u> BOROSCOPE INSPECTION REPORT FOR EN | FICHA DE TRABALHO (WORK SHEET) NSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> INSPECTION REPORT FOR ENGINE PW545B) | |
|--|--|--|---|---------------------|
| | | | No. FT MT-03-06 | |
| O.S. nº: (Work Or | der nº) 9433 | 2 Item n°: (<i>Item n°</i>) | 21 | |
| ITEM (Item) | | SERVIÇO A EXECUTAR (Work to perform) | MEC (Mechanic) | INSP (Inspector) |
| 32 | Instalar o starter removido do item 02 conforme instruções do Manual de Manutenção da Aeronave,capitulo 80. (Install the starter motor in accordance with Aircraft Maintenance Manual, chapter 80) Torque= N/A lb in | | | Alla |
| 33 | Instalar a vela de ignição conforme instruções do Manual de Manutenção da Aeronave capitulo 74. (Install the igniter plug in accordance with Aircraft Maintenance Manual, chapter 74) | | | (B antu: |

| O componente/aeronave descrito acima foi considerado: (The part/aircraft described above is:) |
|--|

Instalar o plug da caixa de ignição conforme instruções do

(Install the plug on the exciter box in accordance with Aircraft Maintenance

Instalar o cabo de ignição conforme instruções do Manual de

(Install the igniter cable from exciter box in accordance with Aircraft

Manual de Manutenção da Aeronave, capitulo 74.

Manutenção da Aeronave, capitulo 74.

Maintenance Manual, chapter 74)



34

35

Aprovado (Approved)

Torque=350lb.in

Manual, chapter 74)

Reprovado (Not approved)

P P

1:30 103

| T Ai | FICHA DE INS | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | Folha (Sheet) 33 de (of) 35 | |
|-----------------------------|--|--|-------------------|--------------------------------|--|
| | | TM 040 | | No. FT | |
| O.S. n°: (Work Order n°) | 94332 | Item nº: (Item nº) | / | 111-00-00 | |
| ITEM (Item) | SERVIÇO A EXECUTAR M (Work to perform) (Med | | MEC (Mechanic) | INSP (Inspector) | |

Observação (Remarks):

·(18) Referencia: Tabela 605 do M. A. PWC 545B, Capitulo 72-00-00; "impection" · (29) Referencia: Tabela 617 do M.M. PWC 545B Capitulo 12-00-00, "inspection" Recommenda-se uma programação regular de lavagim, combisilidor de corrosão. Burenin mada nom do a progressão da corrosão. · (20) Obiser ado "ereating loss" mas " Madin de HPT. lis mesmas encantram. re dentro dos limites accitáncia. Porem, a motor dere ser inspecienado moramente apos 609 conforme a tabela M. PWC 545B, capitu -00-00 12 72 inspection

| T AN | FICHA DE INS | FICHA DE TRABALHO (WORK SHEET) FICHA DE INSPEÇÃO BOROSCÓPICA DO MOTOR <u>PW 545B</u> (BOROSCOPE INSPECTION REPORT FOR ENGINE PW545B) | | |
|-----------------------------|------------------|--|---|---------------------|
| | | TM 040 | | No. FT MT-03-06 |
| O.S. n°: (Work Order n°) | 94332 | Item nº: (Item nº) | 1 | |
| ITEM (Item) | SERVIÇO (Work | SERVIÇO A EXECUTAR MEC (Work to perform) (Mecha | | INSP (Inspector) |

Saulo Lisboa Vielra Inspetor Código ANAC:

Assinatura e Carimbo do Inspetor (Inspector Signature and Stamp)

19/06/18

Data (Date)



TAM AVIAÇÃO EXECUTIVA E TÁXI AÉREO S/A CESSNA AUTHORIZED SERVICE CENTER

DEPARTAMENTO DE ATENDIMENTO AO CLIENTE

CNPJ: 52.045.457/0008-92 I.E: 407420009110 I.M.: 82283

TM 023 / 01

| ORDEM DE SERVIÇO (WORK ORDER) | | PREFIXO (ACFT REG.) | DATA DE ENTRADA (D | DATA DE ENTRADA (DATE-IN) | | DATA DE SAÍDA (DATE-OUT) | |
|-------------------------------|---|---------------------|-----------------------|---------------------------|---------------------------------|--------------------------|--|
| 94332 | | PP-RST | 19/06/2018 | 19/06/2018 | | 19/06/18 | |
| N.º | Nome por Extenso | (Name) | Rubrica (Initials) | N.º Lice | ença ANAC (ANAC liceșse#) | N.º Chapa (ID#:) | |
| | | Mecânicos (Me | echanics) | | | | |
| 1 | Calos de hiri la | uletti | PH | 12 | 5375 | 3744 | |
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| 19 | | | | | | | |
| 20 | | | | | | | |
| | | Inspetores (In | pectors) | | | | |
| 1 | Saulo Lisboa Vielra | | SE | Contu? | 18943 | 2309 | |
| 2 | Código ANAC: Aviação succurra Nº 11425-9 | | 4 | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |





TAM Aviação Executiva e Táxi Aéreo S.A. Rua Monsenhor Antônio Pepe, nº 94 Jardim Aeroporto 04357-900 São Paulo - SP Brasil Tel: +55 11 2890.7800 | Fax: +55 11 2890.7856 Call Center Fretamento +55 11 4002.7000 Coordenação de Voo (24hs): +55 11 2890.7756 | 28980 7753 www.tamaviacaoexecutiva.com.br

FINAL DO RELATÓRIO PRESERVAÇÃO MOTORES

PP-RST

Jundiaí

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Rio de Janeiro

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