ALTERATION AND REASON SIGN DATE

ORIGINAL REFERENCE ENQUIRY

REMOVE THE ENGINE AND STORE IN THE METALIC CONTAINER AS PER 5. RIG SETUP DESCRIPTION: PROCEDURE GIVEN IN IOM ARDC/D/DD-PFS/HTT-40/40.1/028/2020 DATED 11-A REGULATED AIR PRESSURE SOUCE SHALL BE USED TO

7. RIG SETUP MAINTENANCE SCHEDULE:

SL NO	PERIODICITY	MAINTENANCE CHECKS
01	BEFORE START OF TEST	TANK TO BE EMPITED AND CLEANED PROPERLY COMDITION OF THE TANK INSIGE (CHECK FOR ANY CORROSION, FUNGLIS AND DAMAGES IF ANY BY USING BAROSCOPE INSTRUMENT) CHECK PRESSURE RELIEF VALVE FUNCTIONALLITY AND ENSURE THAT PRESSURE IS GETTING RELIVED AT 1,5 psig OR BELOWS 1.0 psig. THIS IS TO BE CHECKED BEFORE CONNECTIONS THE TEST STETTUT TO TENDING FOUL.
02	YEARLY	CALIBRATION OF PRESSURE GAUGES CLEANING THE FILTER ELEMENT

THE FOLLOWING SHALL BE THE ACCEPTANCE CRITERIA REQUIRED FOR THE MAINTENANCE OF PRESERVATION RIG AND COMPLIANCE OF ENGINE PRESERVATION PROCEDURE

- 1. THE SETUP SHALL BE CLEANED AND MAINTAINED PERIODICALLY AS PER THE MAINTENANCE SCHEDULE AS PER PARA 7.
- 2. THE REPORT SHALL BE DOCUMENTED AS AND WHEN PERIODIC MAINTENANCE CHECKS WILL BE CARRIED OUT
- 3. CALIBRATED PRESSURE GAUGE CHALL BE USED IN THE TEST SETUP.
- 4. FUNCTIONALITY OF RIG INSTRUMENTS SHALL BE CHECKED AND ENSURED BEFORE START OF PRESERVATION AS MENTIONED IN PARA 7
- 5. THE RIG SETUP SHALL BE KEPT IN CLEAN AND DUST FREE ENVIRONMENT WITH PROPER BLANKING AT INLETS AND OUTLETS WHENEVER RIG IS NOT IN USE.
- 1. AFTER COMPLETION OF PRESERVATION PROCEDURE. THE RIG SETUP AND THE ENVIRONMENT AROUND IT SHALL BE CLEANED AND MAINTAINED NEATLY

HINDUSTAN TURRO

2 to 5 psi clean air

Oil Tank

AN815-8 union with MS28778-8(O-

Hose of P/N: 11R-54-0110-007-000

connect engine inlet connection to

Oil Tank,(capacity of 5 litres)with

inlet and outlet connections; Oulet connection at the bottom with

AN815-8 Union and 10 micron filter for connecting the hose and Inlet

connection at the top with suitable

fitting to connect air pressure

or similar hose can be used to

2 SAFETY STANDARDS SHALL BE MAINTAINED AND ENSURED

HTT.40

9. ABBREVIATION:

02	PSI	POUND PER SQUARE INCH	
03	FCU	FUEL CONTROL UNIY	

5. VENDERS SCOPE:

- 1. PIPES AND FITTINGS. SKID FRAME, SEAL ETC. REQUIRED ARE INTEGRAL PART OF RIG.
- 2. INSTALLATION, TESTING AND DELIVERY TO HAL
- 3. OEM CATALOGUES, LAYOUT/ GA DRAWINGS, OPERATION & MAINTENANCE MANUAL, TEST CERTIFICATES, TEST REPORTS IF ANY ARE TO BE SUPPLIED.

1. ARRAMGEMENT DRAWING HAS TO BE SUBMITTED FOR APPROVAL BEFORE FABRICTION.

Figure 1: Representation of HTT-40 Engine preservation rig set up

SPECIFICATION FOR INHIBITION SYSTEM

THIS REPORT DESRIBES THE DETAILS OF TECHNICAL

SPECIFICATIONS OF PRESERVATION RIG SET UP FOR HTT-40

TPE331-12B ENGINE MAINTENANCE MANUAL, REPORT NO.

HTT-40 ENGINE (TPE-331-12B) SHALL BE PRESERVED AND

ENGINE MAINTENANCE MANUAL REPORT NO. 72-00-61. REV

THE RIG USED FOR HTT-40 ENGINE (HONEYWELL TPE -331-

12B) PRESERVATION SHALL CONSIST OF THE FOLLOWING.

2. PRESSURE RELIEF VALVE TO RELIVE PRESSURE AT 4.5

3. OIL TANK 5 LITERS CAPCITY MADE-UP OF ALUMINUM

SHEET TO WITHSTAND PRESSURE UP-TO 7.5 PSIG.

PRESERVATION oil AS PER MIL-PRF-6081D GRADE

6. CONNECTING HOSE (COMPATIBLE TO PRESERVATION

7. DRAIN HOSE (COMPATIBLE TO PRESERVATION OIL AS

10. PRESERVATION OIL TURBONYCOIL-3516/MIL-

THE SCHEMATIC REPRESENTATION OF THE RIG SETUP

PRF_6081D GRADE 1010/NATO CODE-O-133.

1. REGULATED, CLEANED AND MOISTURE FREE

COMPRESSED AIR PRESSURE SOURCE.

5. OIL FILTER (10 MICRON) (COMPATIBLE TO

OIL AS PER MIL-PRF-608D GRADE 1010).

PER MIL-PRF-6081D GRADE 1010)

IS AS SHOWN IN FIGURE 1.

4. PRESSURE GAUGE (0-30 PSI)

MAINTAINED AS PER THE PROCEDURE STATED IN THE

08, CHAPTER 72 USING THE TEST SETUP MENSTIONED

1. INTRODUCTION:

72-00-61, REV 08

BELOW

PSIG

8. CONTAINER

9. MOVABLE STAND.

3. TEST SPECIMEN:

AIRCRAFT ENGINE (TPF331-12B)

2. REFERENCE DOCUMENTS:

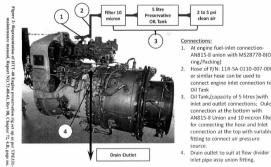
SUPPLY CLEAN AND MOISTURE FREE COMPRESSED AIR RANGE 2-5 PSIG TO PRESERVATION OIL TNAK OF 5-1 ITER CAPACITY, A PRESSURE RELIFF VALVE SHALL BE MOUNTED IN BETWEEN THE OIL TANK AND PRESSURE SOURCE TO RELIEVE THE EXCESS PRESSURE IR OBSERVED. PRESERVATION OIL SHALL BE PUMPED FROM THE OIL TANK TO THE ENGINE FUEL INLET CONNECTION AN815-8 UNION WITH MS28778-8(O-RING/PACKINGING.) A 10 MICRON- FILTER SHALL BE FREE FROM CONTAMINATION. A CONNETING HOSE (P/N: 11R-5A-01-0110-007-000 OR SIMILER HOSE) SHALL BE USED TO CONNECT THE OIL TANK TO THE ENGINE INLET CONNECTION. A DRAIN HOSE SHALL BE PROVIDED TO FUEL OUTLET LINE FROM FUEL CONTROL UNIT(FCU) AND THE SAME SHALL BE COLLECTED USING A CONTAINER

THE WHOLE SETUP EXCEPT THE ENGINE INLET AND OUTLET LINES SHALL BE SUPPORTED AND MAINTAINED IN A STAND. SO UPON COMPLETION OF ENGINE PRESERVATION. THE INLET AND OUTLET LINES SHALL BE DISCONNECTED AND RIG SETUP SHALL BE SECURED PROPERLY. THE SCHEMATIC REPRESENTATION OF THE RIG SETUP SHALL BE AS SHOWN IN FIGURE 1.

6. PROCETURE TO PRESERVE HONEYWELL TPE331-12B ENGINE WITH PRESERVATIVE OIL.

- . DISCONNET ENGINE FUEL LINE BETWEEN FUEL CONTROL UNIT (FCU) AND FUEL FLOW DIVIDER. CONNET A DRAIN HOSE AND DROP IT TO A
- . DISCONNET FUEL SUPPLY HOSE AT ENGINE FUEL INLET CONNECTION AND CONNET A LOW PRESSURE (2 TO 5 PSIG) SOURCE OF FILTERED (10 MICRONS NOMINAL) PRESERVATIVE OIL
- DE-ENERGIZE IGNITION SYSTEM BY PULLING OUT IGNITION CB. THEN MOTOR ENGINE WITH STARTER -GENERATOR, DO NOT EXCEED 15% RPM OR 30 SECONDS WHEN MOTORING ENGINE WHICHEVER HAPPENS FIRST
- REPEAT MOTORING PROCEDURE FOR ANOTHER 2 TIMES TO ENSURE THAT PRESERVATIVE OIL IS COMPLETELY DRAINED FROM FCU
- RESTORE THE ENGINE FUEL LINE CONNETING FCU AND FUEL FLOW DIVIDER
- . PLUG THE ENGINE FUEL INLET PORT WITH THE STANDERD FITTING AN929-8
- FOLLOW THE REMAINING PROCEDURE MENTIONED IN THE ENGINE MAINTENANCE MANUAL REPORT NO. 72-00-61, REV 08 -, CHAPTOR 72.





For preserving the engine, with the above set up and Ignition CB pulled out, Crank the engine upto RPM<15%, until clean oil flows from overboard drain line

D O R: REFERENCE ARDC REPORT NO. HAL/ARDC/HTT-40/PPF/116 DATE: 30-03-2021

No. ON ALL DETAILS & MFR'S LABER TOOL ENGINEERING SCALE: 1:1 HONEYWELL TPE331-12B DESCRIPTION ENQUIRY DRAWING FOR HTT 1005 00 ENGINE PRESERVATION RIG.