



400 MAIN STREET, MAIL STOP 121-10
EAST HARTFORD, CT 06108, USA.
TELEPHONE:- 860 565 5515
FAX:- 860 565 0600

DATE: May.18/05

P.O. BOX 31, DERBY
TELEGRAMS - 'ROYCAR' DERBY
TELEX - 37645
TELEPHONE:- 44 (0) 1332 242424
FAX:- 44 (0) 1332 249936

V2500-A5 SERIES PROPULSION SYSTEM NON-MODIFICATION SERVICE BULLETIN

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Bulletin Initial Issue

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NON – MODIFICATION – ENGINE – GEARBOX – SCAVENGE OIL FILTER HOUSING ASSEMBLY –
THERMOCOUPLE THREAD INSPECTION/REWORK

1. Planning Information

A. Effectivity

(1) Aircraft

- (a) Airbus A319
- (b) Airbus A320
- (c) Airbus A321

(2) Engine

- (a) Engine Serial Nos. V11699, V11701, V11702, V11703, V11704, V11706, V11707, V11708, V11709, V11710, V11711, V11712, V11713, V11714, V11715, V11716, V11717, V11718, V11719, V11720, V11721, V11722, V11723, V11724, V11725, V11726, V11727, V11728, V11729, V11730, V11731, V11732, V11733, V11734, V11735, V11736, V11737, V11738, V11739, V11740, V11741, V11743, V11745, V11747, V11753.

B. Reason

It has been found that the internal thread for the scavenge oil thermocouple on the oil scavenge filter housing has been tapped too shallow. On some of the affected engines this may result in an o-ring (Ref. EIPC 79-32-16 Fig 01 Item 020) not being compressed enough to provide a fully effective seal, giving slight oil leakage.

After inspection, several in shop gearboxes have been found to have scavenge filter housing threads tapped too shallow, although none had oil leakage.

This problem will not lead to service events but may result in oil weeping from the oil scavenge housing to thermocouple interface, resulting in very minor oil leakage. Leakage will not exceed 0,29 qts (0,27 liters) per hour, under any circumstance.

This Non-Modification Service Bulletin instructs inspection of the housing at shop visit to check for an incomplete thread and contains rework instructions for the oil scavenge filter housing, if required.

C. Compliance

Category Code 4

IAE recommends that the action detailed in part 3.A., inspection of the oil scavenge filter housing – oil scavenge temperature thermocouple interface be completed at the first visit of an engine or a module to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for engine removal.

D. Approval

The compliance at 1.C. and the procedures outlined in Section 3 of this Non-Modification Service Bulletin, comply with the Federal Aviation Regulations and are FAA approved for the engine models listed.

E. Manpower

(1) In service

Not applicable.

(2) At overhaul

(a) Rework

1.5 hours

F. Material

None.

G. Tooling

None.

H. References

(1) Internal Reference No. – 05VR741.

(2) ATA Locator – 72-00-00.

2. Material Information

None.

3. Accomplishment Instructions

A. Inspection of the scavenge oil filter housing

- (1) Visually inspect the oil temperature thermocouple / filter housing interface and check for any gap between the two faces using feeler gauges. If the gap is greater than 0,030 inch (0,762 mm) then proceed with rework instructions of part 3.B. If the gap is less than or equal to 0,030 inch (0,762 mm) no rework is needed. Refer to Fig.1.

B. Rework of the scavenge oil filter housing

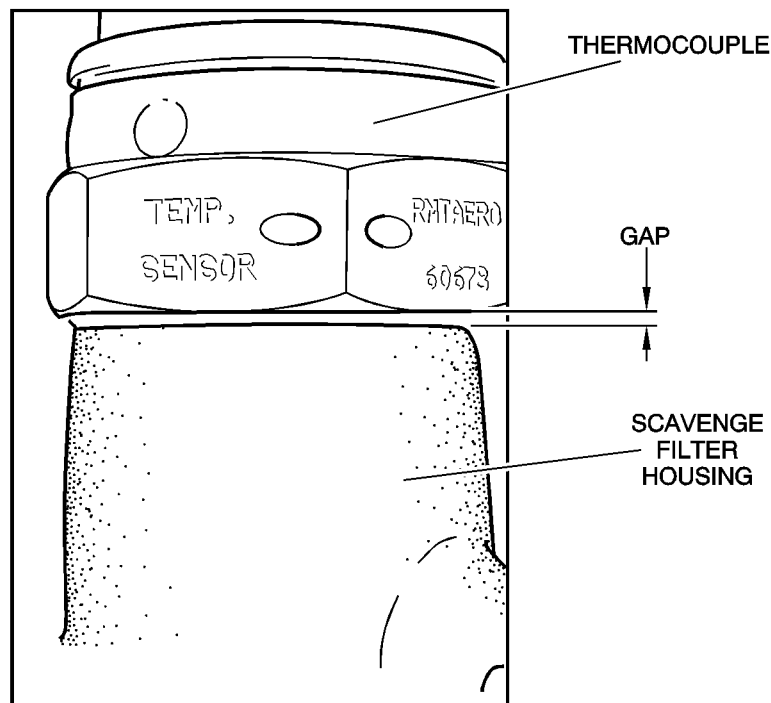
- (1) Remove the scavenge oil filter housing assembly from the gearbox per Engine Manual procedures (Ref. 72-00-60-050-051).
- (2) Remove the scavenge oil temperature thermocouple per Engine Manual procedures (Ref. 72-00-60-050-006).
- (3) Rework the internal screw thread on the oil scavenge filter housing for the oil scavenge thermocouple. The thread is 0.6250-18UNJF-3B and should have minimum axial length of 0,61 inch (15,5 mm). Carefully engage the screw tap in the thread and slowly turn the tap clockwise for 11 turns. Turn the screw tap counterclockwise to extract it. Be careful to avoid debris entering the oil scavenge filter housing.
- (4) Clean the reworked areas by blowing dry, clean compressed air through the threaded hole.
- (5) Visually inspect the oil scavenge filter housing with a magnifying glass for cracks in the locality of the bore.
- (6) Touch up the reworked areas with Alodine.
- (7) Re-install the scavenge oil thermocouple per Engine Manual procedures (Ref. 72-00-60-450-006).

NOTE: Do this while the oil scavenge filter housing is removed from engine.

- (8) Repeat part 3.A., inspection of the scavenge oil filter housing. If the gap is still greater than 0,030 inch (0,762 mm) remove the scavenge oil thermocouple per Engine Manual procedures (Ref. 72-00-60-050-006) and repeat steps 2 to 7, of the scavenge oil filter housing rework procedures, but turn the tap clockwise for 11.5 turns.
- (9) Re-install the scavenge oil filter housing assembly per Engine Manual procedures (Ref. 72-00-60-450-053).

C. Recording Instructions

- (1) A record of accomplishment is required.



LOCATION OF THE GAP BETWEEN THE OIL SCAVENGE FILTER HOUSING AND THE SCAVENGE OIL THERMOCOUPLE

FIG. 1

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