



International Aero Engines

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V2500-A1/A5/D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits the Initial Issue of Service Bulletin EV2500-79-0089 and the Initial Issue of the Supplement

Bulletin Initial Issue

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Supplement Initial Issue

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LIST OF EFFECTIVE PAGES

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Printed in Great Britain



OIL – SCAVENGE OIL TUBES – ENGINE – INTRODUCTION OF FLUOROCARBON SEALS

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No. V11675

(2) Airbus A320

V2500-A1 Engines prior to Serial No. V0362

V2527-A5, V2527E-A5 Engines prior to Serial No. V11675

(3) Airbus A321

V2530-A5, V2533-A5 Engines prior to Serial No. V11675

(4) Boeing – Longbeach Division MD-90

V2525-D5, V2528-D5 Engines prior to Serial No. V20285

B. Concurrent Requirements

None.

C. Reason

(1) Problem

Oil system leaks at pipe disconnect positions (around o-ring seals) may occur.

The problem has been attributed to fluorosilicone seals being degraded by some standards of aviation lubricating oil, which leads to hardening of the seal with possible swelling and subsequent cracking.

(2) Evidence

The problem has been observed on engines in service.

(3) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory engineering analysis.



(4) Objective

Incorporation of this Service Bulletin (Modification) is designed to maintain reliability.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

(1) The changes introduced are:

The existing fluorosilicone seals within the oil system are replaced by their equivalent fluorocarbon seals.

E. Compliance

Category Code 4

Accomplish at the first shop visit of an engine or module to a maintenance base capable of compliance with the Accomplishment Instructions regardless of the planned maintenance action or the reason for engine removal.

F. Approval

The part number changes and/or part modifications described in sections 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA Approved for the engine models listed.



G. Manpower

In service

Not affected.

At overhaul

Not affected.

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

H. Material Price and Availability

Modification kit not required; parts supplied as single line items.

For prices and availability of future spares see Supplement to this Bulletin.

I. Tooling Price and Availability

Special tools are not required.

J. Industry Support Information

None.

K. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

None.

(3) Datum

Engine Front Mount Centreline (Power Plant Station – PPS 100).

L. Electrical Load Data

The aircraft electrical load is not affected by this Service Bulletin.

M. Software Accomplishment Summary

Not applicable.



N. References

- (1) Engine Manual, Chapter/Section 72-00-60, Removal/Installation.
- (2) Aircraft Maintenance Manual, Chapter/Section 79-22-41 and 79-22-43, Removal and Installation.
- (3) IAE Service Bulletin - V2500-ENG-79-0058
Oil - Scavenge Oil Tubes - Engine - ACOC to Scavenge Oil Filter and Scavenge Pump to No.8 Strut Oil Tubes re-routed in the region of the Oil Scavenge Pump.
- (4) Internal Reference Nos. - 03VR002, 03VR003.
- (5) ATA Locator - 79-22-49.

O. Other Publications Affected

- (1) Illustrated Parts Catalogue (IPC) Chapter/Section 79-22-49 will be revised.
- (2) Engine Manual, Chapter/Section 72-00-60, Removal/Installation.
- (3) Aircraft Maintenance Manual, Chapter/Section 79-22-41 and 79-22-43, Removal and Installation.

P. Interchangeability of Parts

Not affected.



2. Material Information

A. Parts required to accomplish this Service Bulletin:

All Engines

79-22-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
07516	AS43013 -218	1	.Ring, Sealing Toroidal -		MS9967 -218	(A)(B) (S1)
10516	AS43013 -218	1	.Ring, Sealing Toroidal -		MS9967 -218	(A)(B) (S1)

A1 and A5 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
02516	AS43003 -910	1	.Ring, Sealing Toroidal -		MS9966 -10	(A)(B) (S1)

D5 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
02096	AS43003 -910	1	.Ring, Sealing Toroidal -		MS9966 -10	(A)(B) (S1)

For Engines Incorporating SB V2500-ENG-79-0058

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
07816	AS43013 -218	1	.Ring, Sealing Toroidal -		MS9967 -218	(A)(B) (S1)

B. Instructions disposition codes:

(A) New part will be made available from July 2003.

(B) Old part becomes redundant upon embodiment of this Service Bulletin.

(S1) Old and new parts are freely and fully interchangeable.



3. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

The fluorocarbon seals introduced by this Service Bulletin are freely and fully interchangeable with the existing. Remove and install in accordance with current overhaul procedures or maintenance practices (Engine Manual, Chapter/Section 72-00-60, Removal/Installation or Aircraft Maintenance Manual, Chapter/Section 79-22-41 and 79-22-43, Removal and Installation).

C. Recording Instructions

A record of accomplishment is necessary.



OIL - SCAVENGE OIL TUBES - ENGINE - INTRODUCTION OF FLUOROCARBON SEALS

SUPPLEMENT - PRICES AND AVAILABILITY

The prices if shown are for estimating purposes only and as such are given in good faith, without commercial liability for advanced planning purposes only. Refer to IAE Spares and/or current price catalogue for current prices.

1. Modification Kit:

Not applicable.

2. New Production Parts:

Part No.	Desc.	Unit Price US Dollars
AS43013-218	Ring, Sealing	5.65
AS43003-910	Ring, Sealing	4.21

