

SERVICE BULLETIN

DATE: 13 DECEMBER 2011

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* Supersedes Service Bulletin SB900-118, date 20 July 2011. Revised to include 900D1400006-101 transmission assemblies in spares inventory. Rotorcraft that are in compliance with SB900-118 and meet the intent of this revision require no additional action.

REPLACEMENT OF MOBIL SHC 626 WITH MOBIL AGL

1. PLANNING INFORMATION

A. Aircraft Affected:

MD900 helicopters, serial numbers 900-00008 thru 900-00139, with transmission assembly Part Number (PN) 900D1400006-101 installed and for 900D1400006-101 transmission assemblies in spares inventory.

B. Assembly/Components Affected By This Notice:

MHS5833-13 Transmission Oil Fill Decal

900D1400006-101 Transmission Assembly

900N7204400-101 Upper Deck Decal Installation

C. Reason:

ExxonMobil will make Mobil SHC 626 lubrication oil with a new formula. There will be a "NOT FOR AVIATION USE" label on Mobil SHC 626 made with this new formula. Mobil SHC 626 lubrication oil with the label "NOT FOR AVIATION USE" is not approved for use in MDHI rotorcraft. ExxonMobil will make Mobil AGL lubrication oil which is approved for use in all MDHI products that had used the approved Mobil SHC 626. Mobil AGL is the same formula as the approved Mobil SHC 626. Mobil AGL can be mixed with the approved Mobil SHC 626. Current inventories of the approved Mobil SHC 626 can be used until that inventory is gone.

Failure to comply with this bulletin can result in the incorrect use of a lubrication oil (Mobil SHC 626 with the label "NOT FOR AVIATION USE") in the transmission assembly which can cause damage to the transmission assembly and subsequently void the warranty.

D. Description:

Procedures in this Bulletin give owners and operators information on the introduction and use of Mobil AGL and to remove and replace the old Mobil SHC 626 decals with the new Mobil AGL decals.

E. Time of Compliance:

The requirements of this bulletin must be completed before the first use of Mobil AGL lubrication oil.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

G. Manpower:

Compliance with this bulletin will be approximately 0.50 man-hours.

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H. Interchangeability:

None.

I. Points of Contact:

For further assistance, contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or 480-346-6387. DATAFAX: 480-346-6813.

J. Material/Part Availability:

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Abrasive Paper, Fine	NA	AR	Commercially Available
Acetone (C436)	O-A-51	AR	Commercially Available
Cloth, Non-Lint (C802)	NA	AR	Commercially Available
Lubrication Oil	Mobil AGL	AR	ExxonMobil Corp. Aviation Lubricants (CAGE Code 53C29) — Commercially Available (ref. NOTE below)
Marker, Black	73x [®] Marking Ink	AR	Independent Ink, Inc. (CAGE Code 05AM6) 13700 South Gramercy Place Gardena, CA 90249 Phone: 310-523-4657 www.independentink.com
Pad, Scouring	Scotch-Brite [™] 63	AR	Commercially Available
Polyurethane Coating (C314)	MIL-C-83286	AR	Deft Inc. (CAGE Code 33461) 17451 Von Karman Avenue Irvine, CA 92614 Phone: 949-474-6714
Primer (C308)	MIL-PRF-23377, Type I, Class C	AR	Deft Inc. (CAGE Code 33461) Ref. Entry Above
Transmission Oil Fill Decal	MHS5833-14	1	MDHI

NOTE: MDHI recommends owners and operators contact their current supplier of Mobil SHC 626 and tell them of their need to purchase Mobil AGL. Additional information for the purchase of Mobil AGL can be found at:

<http://www.exxonmobil.com/lubes/exxonmobil/emal/pages/wheretobuy/wheretobuy.html>

K. Warranty Policy:

N/A

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L. Disposition of Parts Removed:

Discard removed Mobil SHC 626 decals and all Mobil SHC 626 decals in spares inventory.

M. Tooling:

N/A

N. Weight and Balance:

N/A

O. Electrical Load Data:

N/A

P. Other Publications Affected:

CSP-SPM Standard Practices Manual
CSP-900RFM206A-1 Rotorcraft Flight Manual
CSP-900RFM206E-1 Rotorcraft Flight Manual
CSP-900RFM207E-1 Rotorcraft Flight Manual
CSP-902RFM206E-1 Rotorcraft Flight Manual
CSP-902RFM207E-1 Rotorcraft Flight Manual
CSP-900RMM-2 Rotorcraft Maintenance Manual - Servicing and Maintenance
CSP-900IPL-4 Illustrated Parts List
SB900-087 Main Rotor Transmission Assembly Upgrade

Q. Reference Publications:

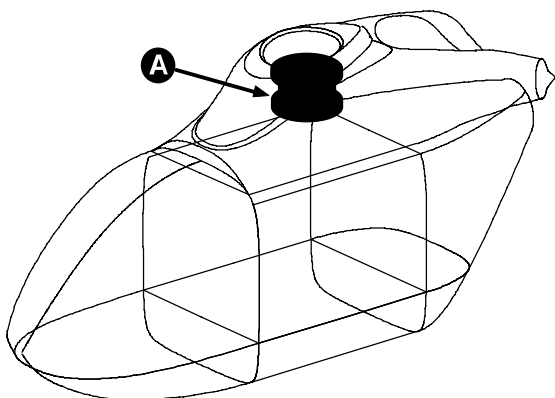
Refer to the latest revision of these publications for procedures and additional information:
CSP-SPM Standard Practices Manual
CSP-900RMM-2 Rotorcraft Maintenance Manual - Servicing and Maintenance
CSP-900IPL-4 Illustrated Parts List

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TRANSMISSION
OIL FILL

SERVICE WITH
MOBIL SHC 626 OIL

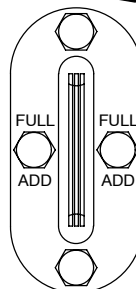
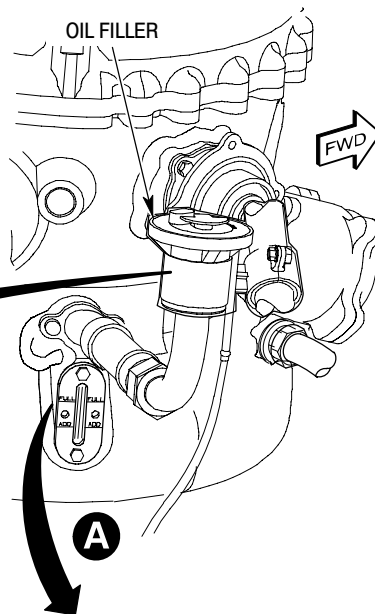
OLD DECAL



TRANSMISSION
OIL FILL

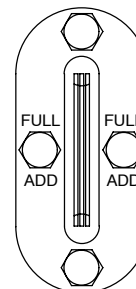
SERVICE WITH
MOBIL AGL OIL

NEW DECAL



SERVICE TRANSMISSION
WITH MOBIL SHC 626 OIL

OLD STAMP



SERVICE TRANSMISSION
WITH MOBIL AGL OIL

NEW STAMP

9B98-158

Figure 1. Removal and Replacement of Mobil SHC 626 References

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2. ACCOMPLISHMENT INSTRUCTIONS

(Ref. Figure 1)

A. Remove and Replace the Transmission Oil Fill Decal

NOTE: Removal and replacement of the transmission oil fill decal is not necessary for uninstalled transmission assemblies.

- (1). Remove Access Panel L210 (ref. CSP-900RMM-2, Section 06-00-00).
- (2). Make sure the transmission assembly installed is PN 900D1400006-101.
- (3). Remove the old decal from the transmission assembly.
- (4). Clean the old adhesive from the transmission assembly (ref. CSP-SPM, Section 20-20-00).
- (5). Install the new decal on the transmission assembly (ref. CSP-900RMM-2, Section 11-00-00).

B. Modify the Transmission Ink Stamp



Use a light force to remove the ink stamp. The removal of the urethane coating must be minimal.

- (1). Remove the old ink stamp below the sight gage of the transmission housing and replace with a new ink stamp:
 - (a). Remove the SHC 626 designation with fine abrasive paper or scouring pad.

Acetone (C436)



- (b). Clean the area with acetone (C436) and a non-lint cloth (C802).

Primer (C308)



- (c). If necessary, apply a layer of primer (C308) if the primer was removed.
- (d). Write the AGL designation with a black marker.

Polyurethane Coating (C314)



- (e). Apply 2 layers of polyurethane coating (C314) as follows:

NOTE: Also ref. CSP-SPM, Section 20-30-00.

- 1). Apply the first layer.
- 2). Let dry for 2 hours.
- 3). Apply the second layer.
- 4). Let dry for 24 hours at room temperature.



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C. Job Close

- (1). If necessary, service the transmission assembly with Mobil AGL (ref. CSP-900RMM-2, Section 12-00-00).
- (2). Install Access Panel L210 (ref. CSP-900RMM-2, Section 06-00-00).

D. Compliance Record

- (1). Record compliance to this Service Bulletin in the Compliance Record section of the Rotorcraft Log Book, as applicable, and on the Transmission Component Card.
- (2). Complete Bulletin Completed Record form (attached) and FAX or e-mail to MDHI Field Service Department.

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Bulletin Completion Record Replacement of Mobil SHC 626 with Mobil AGL

MD Helicopters, Inc.
Field Service Department
4555 E. McDowell Road
Mesa, AZ 85215-9734

800-388-3378 Phone (U.S. and Canada)
480-346-6387 Phone (International)
480-346-6813 Fax

FAX this form to MDHI (480) 346-6813 or E-mail to ServiceEngineering@mdhelicopters.com

Dear Sir:

This is to tell you that this Service Bulletin has been completed as follows:

Owner /Operator: _____	Helicopter Serial No.: _____
Address: _____	Helicopter Total Time: _____
_____	Transmission Serial No. _____
_____	Date: _____
Phone: _____	Location: _____
E-mail: _____	

This bulletin is complete:

_____ (Signature)

_____ (Print Name)

_____ (Title)

Comments: _____

FAX this form to MDHI (480) 346-6813 or
Email to ServiceEngineering@mdhelicopters.com

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**ExxonMobil Lubricants &
Petroleum Specialties Company**

3225 Gallows Road
Fairfax, VA 22037

June 2, 2011

Re: Use of Mobil SHC 600 Series lubricants is not recommended in Aviation applications

Dear Valued Customer:

This letter reiterates our product introduction communications recommending that customers use Mobil AGL Synthetic Aviation Gear Lubricant (Mobil AGL) in the appropriate Aviation applications, and **discontinue** use of Mobil SHC 626 and other Mobil SHC 600 Series oils in Aviation applications. ExxonMobil Aviation Lubricants is offering Mobil AGL as a superior aviation gear oil providing outstanding performance in helicopter transmissions and gearboxes.

Mobil AGL has been developed from Mobil SHC 626 technology used by MD Helicopters, Boeing, and Erickson-Air Crane for many years, with additional quality assurance and product traceability features appropriate for an aviation lubricant.

Due to planned Mobil SHC 600 Series formulation changes, the existing original equipment manufacturers (OEM) qualifications received for current Mobil SHC 626 and other current Mobil SHC 600 Series oils will not apply to the future formulation of Mobil SHC 600 Series oils. As such, in order to meet OEM specifications, we recommend Mobil AGL.

Helicopter maintenance professionals should consult OEM service bulletins and manuals for specific lubrication recommendations.

Please note; pails, kegs, and drums of Mobil SHC 600 series gear oils manufactured to the new formulations have been labeled as "NOT FOR AVIATION USE." We have included examples of this labeling in the attachment to this letter. The new formulation Mobil SHC can also be identified by the inclusion of the latest Mobil SHC logo.

We appreciate your adherence to this aviation product recommendation. If you have any technical questions regarding the use of this product, please contact your ExxonMobil Aviation Lubricants Territory Manager, or the ExxonMobil Technical Support Center listed in the attached.

Sincerely,

Joanne Eu
Global Aviation Marketing Manager

Attachments

Attachment

Mobil SHC

MOBIL SHC 626
SYNTHETIC BEARING and GEAR OIL
ISO VG 68
NOT FOR AVIATION USE

energy efficiency

Energy efficiency relates solely to the fluid performance when compared with conventional reference oils of the same viscosity grade in gear applications. The technology used allows up to 3.6% efficiency compared with the reference when tested in circulating and gear applications under controlled conditions. Efficiency improvements will vary based on operating conditions and applications.

Mobil, Mobil SHC, the Pegasus design, and the energy efficiency design are trademarks of Exxon Mobil Corporation or one of its subsidiaries.

Made in the USA of domestic and imported components.

visit us at www.mobilindustrial.com

PACKAGED BY 10011E04A	PRODUCT CODE 98LA35 602938	BATCH NUMBER BATCHNO080123456	NET WEIGHT / VOLUME 55 GAL/208.1 L 1001
--------------------------	----------------------------------	----------------------------------	---

INGREDIENT DESCRIPTION: PETROLEUM OIL (Hydrotreated lubricant)

CAS NUMBER

WARNING!
"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose this container to heat, flame, sparks, static electricity, or other sources of ignition; it may explode and cause injury or death. Do not reuse container. "Empty" drums should be completely drained, properly banded and promptly returned to a drum recycler. Dispose of other "empty" containers in accordance with government regulations. Refer to the Material Safety Data Sheet for additional information.

SPILL CONTROL
Eliminate all ignition sources. Ventilate confined spaces. Recover free product. Add sand, earth, or other suitable absorbent material to spill area, and keep spilled product out of sewers and water courses. Advise authorities if product cannot be contained. Conform with applicable governmental regulations.

D.O.T. Hazard Identification
Name: NOT APPLICABLE
Class: NOT APPLICABLE
I.D. No.: NOT APPLICABLE

ExxonMobil Oil Corporation
3225 Gallows Road
Fairfax, VA 22037-0001

Refer to product Material Safety Data Sheet (MSDS) for further safety and health information.
For product information call 1-800-662-4525
For emergencies call 1-800-737-4411

BATCHNO080123456
10011E04A

Mobil SHC

622938981

MOBIL SHC 626

The above image of the new Mobil SHC 600 Series drum label shows that the product should not be used for Aviation applications

Mobil

MOBIL AGL
SYNTHETIC AVIATION GEAR LUBRICANT

energy efficiency

Mobil and the Pegasus design are trademarks of Exxon Mobil Corporation or one of its subsidiaries.

Made in the USA from domestic and imported components.

WARNING!
"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose this container to heat, flame, sparks, static electricity, or other sources of ignition; it may explode and cause injury or death. Do not reuse container. "Empty" drums should be completely drained, properly banded and promptly returned to a drum recycler. Dispose of other "empty" containers in accordance with government regulations. Refer to the Material Safety Data Sheet for additional information.

SPILL CONTROL
Eliminate all ignition sources. Ventilate confined spaces. Recover free product. Add sand, earth, or other suitable absorbent material to spill area, and keep spilled product out of sewers and water courses. Advise authorities if product cannot be contained. Conform with applicable governmental regulations.

D.O.T. Hazard Identification
Name: NOT APPLICABLE
Class: NOT APPLICABLE
I.D. No.: NOT APPLICABLE

Exxon Mobil Corporation
3225 Gallows Road
Fairfax, VA 22037-0001

Refer to product Material Safety Data Sheet (MSDS) for further safety and health information.
For product information call 1-800-662-4525
For emergencies call 1-800-737-4411

PACKAGED BY 10011B25A	PRODUCT CODE 98LA92 622076	BATCH NUMBER BATCHNO080123456	NET WEIGHT / VOLUME 55 GAL/208.1 L 1001
--------------------------	----------------------------------	----------------------------------	---

INGREDIENT DESCRIPTION: Petroleum Oil (Lubricant)

CAS NUMBER

BATCHNO080123456
10011B25A

Mobil

6220769898

MOBIL AGL

The above image of a Mobil AGL drum label for product that can be used in approved Aviation applications

Attachment

Technical Support Center

Monday - Friday, 8:00 am to 5:00 pm, in the local Help Desk time zones.

Americas

+1 718 354 1392 (GMT -5 hours)

Toll-Free: +1 866 328 8036*

(*Only valid in U.S.)

Asia Pacific

+65 6562 6376 (GMT +8 hours)

Europe, Africa, Middle East

+420 22145 6618 (GMT +1 hour)

