

HARTZELL PROPELLER INC.
SERVICE LETTER
HC-SL-61-366
Propeller - NYCO GN3058 Grease

1. Planning Information

A. Effectivity

- (1) All propellers manufactured by Hartzell Propeller Inc. **except** the models specified below are affected by this Service Letter.
 - (a) Hartzell Propeller Inc. HC-E5N-3(A,B)(L)(X) propellers installed on Piaggio P-180 Avanti aircraft are not affected by this Service Letter.
 - (b) Hartzell Propeller Inc. HC-E4P-5(E) propellers installed on Grob/E-Systems G520 Egrett aircraft are not affected by this Service Letter.
 - (c) Refer to the applicable Installation Data Sheet (IDS) in Hartzell Propeller Inc. Application Guide Manual 159 (61-02-59) for the approved grease to be used in propellers that are not affected by this Service Letter.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE LETTER. INFORMATION CONTAINED IN THIS SERVICE LETTER MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS SERVICE LETTER OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE SERVICE LETTER INDEX FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE LETTER.

B. Concurrent Requirements

- (1) Additional service documents may apply to the components/propellers affected by this Service Letter. Compliance with additional service documents may be necessary in conjunction with the completion of the Accomplishment Instructions in this Service Letter. Refer to the Hartzell Propeller Inc. website at www.hartzellprop.com for a cross-reference of service documents.

C. Reason

- (1) Hartzell Propeller Inc. is introducing NYCO GN3058 as the preferred grease for use in the affected propellers.
 - (a) Affected propellers manufactured by Hartzell Propeller Inc. after the release date of this Service Letter will be lubricated with NYCO GN3058 grease.
 - (b) The label shown in Figure 1 will be applied to propellers lubricated with NYCO GN3058 grease by Hartzell Propeller Inc.

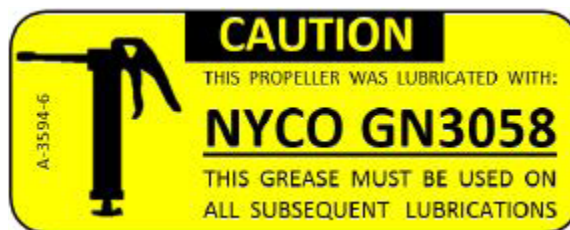
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D. Description

- (1) This Service Letter provides Additional Maintenance Information (AMI).
- (2) This Service Letter introduces NYCO GN3058 as the preferred grease for affected propellers manufactured by Hartzell Propeller Inc.
- (3) This Service Letter introduces a revised version of the A-3594-6 lubrication label used on Hartzell propellers.
 - (a) The revised version of the A-3594-6 lubrication label is yellow and specifies NYCO GN3058 grease. Refer to Figure 1.
 - 1 The previous version of the A-3594-6 lubrication label specified Aeroshell 6 grease.
 - (b) Contact Hartzell Propeller Inc. to replace existing inventory of A-3594-6 lubrication labels

CAUTION: USE ONLY HARTZELL PROPELLER INC. APPROVED GREASE. DO NOT MIX DIFFERENT SPECIFICATIONS AND/OR BRANDS OF GREASE EXCEPT AS NOTED IN THE ACCOMPLISHMENT INSTRUCTIONS SECTION OF THIS SERVICE LETTER.

- (4) This Service Letter provides information about lubricating Hartzell propellers and instructions for re-lubricating if different grease types are accidentally mixed in a propeller.



Lubrication Label
Figure 1

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E. Approval

- (1) This technical document is approved by Hartzell Propeller Inc.

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

F. References

- (1) Hartzell Propeller Inc. Application Guide Manual 159 (61-02-59)
- (2) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)
- (3) All Hartzell Propeller Inc. Propeller Owner's Manuals
- (4) All Hartzell Propeller Inc. Overhaul/Maintenance Manuals

H. Other Publications Affected

- (1) Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02)
- (2) All Hartzell Propeller Inc. Propeller Owner's Manuals
- (3) All Hartzell Propeller Inc. Overhaul/Maintenance Manuals

2. Material Information

<u>Description</u>	<u>Part Number</u>	<u>CM Number</u>
NYCO GN3058 Grease	A-6741-12-7-()	CM12
Lubrication Label (NYCO GN3058)	A-3594-6	n/a

NOTE: All CM numbers refer to the Consumable Materials chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02).

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3. Accomplishment Instructions

CAUTION: INSTRUCTIONS AND PROCEDURES IN THIS SERVICE LETTER MAY INVOLVE PROPELLER CRITICAL PARTS. REFER TO THE APPLICABLE PROPELLER OVERHAUL OR OWNER'S MANUAL FOR INFORMATION ABOUT PROPELLER CRITICAL PARTS.

A. Lubricating a Hartzell Propeller

CAUTION: USE ONLY HARTZELL PROPELLER INC. APPROVED GREASE. DO NOT MIX DIFFERENT SPECIFICATIONS AND/OR BRANDS OF GREASE EXCEPT AS NOTED IN THIS SECTION.

- (1) A label is normally applied to the propeller to indicate the type of grease previously used.
 - (a) The same grease type should be used during re-lubrication unless the propeller has been disassembled and the old grease removed.
 - 1 It is not possible to purge old grease through lubrication fittings.
 - 2 To completely replace one grease with another, the propeller must be disassembled and cleaned in accordance with the applicable overhaul manual.
- (2) If different grease types are accidentally mixed, the propeller must be disassembled and cleaned in accordance with the applicable overhaul/maintenance manual within three months or 30 flights whichever occurs first.
 - (a) EXCEPTION: Aeroshell 5 and Aeroshell 6 greases both have a mineral oil base and the same thickening agent; therefore, mixing of these two greases is permitted in Hartzell propellers.

WARNING: WHEN MIXING AEROSHELL 5 AND AEROSHELL 6 GREASES, THE AIRCRAFT MUST BE PLACARDED TO INDICATE THAT FLIGHT IS PROHIBITED IF THE OUTSIDE AIR TEMPERATURE IS LESS THAN -40° F (-40° C). AEROSHELL 5 GREASE MUST BE INDICATED ON THE LABEL.

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- CAUTION 1: IF A PNEUMATIC GREASE GUN IS USED, EXTRA CARE MUST BE TAKEN TO AVOID EXCESSIVE PRESSURE BUILDUP.
- CAUTION 2: GREASE MUST BE APPLIED TO ALL BLADES OF A PROPELLER ASSEMBLY AT THE TIME OF LUBRICATION.
- CAUTION 3: DO NOT ATTEMPT TO PUMP MORE THAN 1 FL. OZ. (30 ML) OF GREASE INTO THE LUBRICATION FITTING ON AN ALUMINUM HUB PROPELLER. USING MORE THAN 1 FL. OZ. (30 ML) OF GREASE COULD RESULT IN OVER SERVICING OF THE PROPELLER. VERIFY THE OUTPUT OF THE GREASE GUN BEFORE SERVICING THE PROPELLER.
- CAUTION 4: OVER LUBRICATING AN ALUMINUM HUB PROPELLER MAY CAUSE THE GREASE TO ENTER THE HUB CAVITY, LEADING TO EXCESSIVE VIBRATION AND/OR SLUGGISH OPERATION. THE PROPELLER MUST THEN BE DISASSEMBLED TO REMOVE THIS GREASE.
- (3) Using a Hartzell-approved grease CM12, lubricate the propeller in accordance with the instructions in the applicable Hartzell Propeller Inc. propeller owner's/overhaul/maintenance manual.

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B. Recommended Service Facilities

- (1) Hartzell Propeller Inc. has a worldwide network of Recommended Service Facilities for overhaul and repair of our products.
- (2) Each service facility must meet standard FAA requirements and additional Hartzell Propeller requirements before being recommended by Hartzell Propeller Inc. Each service facility is audited by Hartzell Propeller Inc. to verify the continuation of the standards.
- (3) Hartzell Propeller Inc. recommends that you use one of these service facilities when having your propeller overhauled or repaired.
- (4) For a current list of Hartzell Propeller Inc. Recommended Service Facilities, contact Hartzell Propeller Inc. Product Support or refer to the Hartzell Propeller Inc. website at www.hartzellprop.com.

C. Contact Information

Hartzell Propeller Inc.
Attn.: Hartzell Propeller Inc. Product Support
One Propeller Place
Piqua, Ohio 45356-2634 USA
Phone: (001) 937.778.4379
Fax: (001) 937.778.4215
E-mail: techsupport@hartzellprop.com