



**HUGHES
SERVICE INFORMATION
LETTER**

TO—All owners and operators of Hughes Helicopters

SUBJECT: LUBRICATION - UPPER PULLEY SPRAG CLUTCH;
 INSPECTION - MAIN AND TAIL ROTOR TRANSMISSIONS

MODELS AFFECTED: All 269 Series Helicopters

Reference

- 269A/A-1 Handbook of Maintenance Instructions
- TH55A HMI Addendum
- 269B Handbook of Maintenance Instructions

A new gear lubricant, Grade 10 Engine Oil (MIL-L-2104) is to be used for lubrication of the upper pulley sprag clutch when the aircraft is operated at temperatures of 20°F or below. This newly specified oil may also be used to replace petroleum oil grades SAE90EP and SAE80EP (MIL-L-2105B) for temperatures over 20°F, thus providing a universal lubricant for both summer and winter operation. When making the change, it is necessary to drain and flush the upper pulley assembly. Check the sprag clutch in accordance with lubrication and inspection procedures, per referenced HMI.

The manufacturer also recommends that the main and tail rotor transmissions be inspected every 100 hours for evidence of water condensation and accumulation in sump of gear boxes. Pull the main and tail rotor transmission magnetic drain plugs; unseat check valve and drain water. Check oil level of main and tail rotor transmissions in accordance with lubrication and inspection procedures, per reference HMI.

It is suggested that the above inspection be performed at more frequent intervals when the aircraft is operated for extended periods at temperatures of 32°F or below, to preclude freezing of accumulated water in transmission sump and oil lines, subsequent lubricant starvation, and/or damage to gear drive assembly components.