

9 SERVICING

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SERVICING POWERPLANT OIL SYSTEM

Each power section and the combining gearbox have individual, self-contained oil supply tanks. The oil levels can be checked by viewing the visual oil level indicators, Engine #1 from the left, Engine #2 from the right and the combining gearbox from the right.

SERVICING THE TRANSMISSION OIL SYSTEM

The transmission sump oil level sight gages can be checked by use of a small window on the right side of the pylon structural island in the cabin. Filler cap is located at the upper right on the transmission, accessible from the walkway on the cabin roof with transmission fairing open.

SERVICING THE INTERMEDIATE (42°) & TAIL ROTOR (90°) GEARBOXES






The intermediate gearbox and tail rotor gearbox have sight gage plugs for checking level of oil, and have filler caps for servicing when required. Oil level of the intermediate gearbox can be seen through a hole in the fairing, but the fairing must be removed for filling or access to the magnetic plug.

SERVICING GRAVITY FEED SYSTEM HYDRAULIC RESERVOIRS

The Model 212 helicopter has two separate and independent gravity feed hydraulic systems, #1 and #2. #2 reservoir is mounted on the left aft edge of the cabin roof, with the filler scupper forward, while the #1 reservoir is mounted on the right side with the filler scupper aft. Sight gages are visible through holes in the transmission fairing for viewing fluid level. If fluid level is visible, servicing is required. Open transmission fairing for servicing of reservoirs.

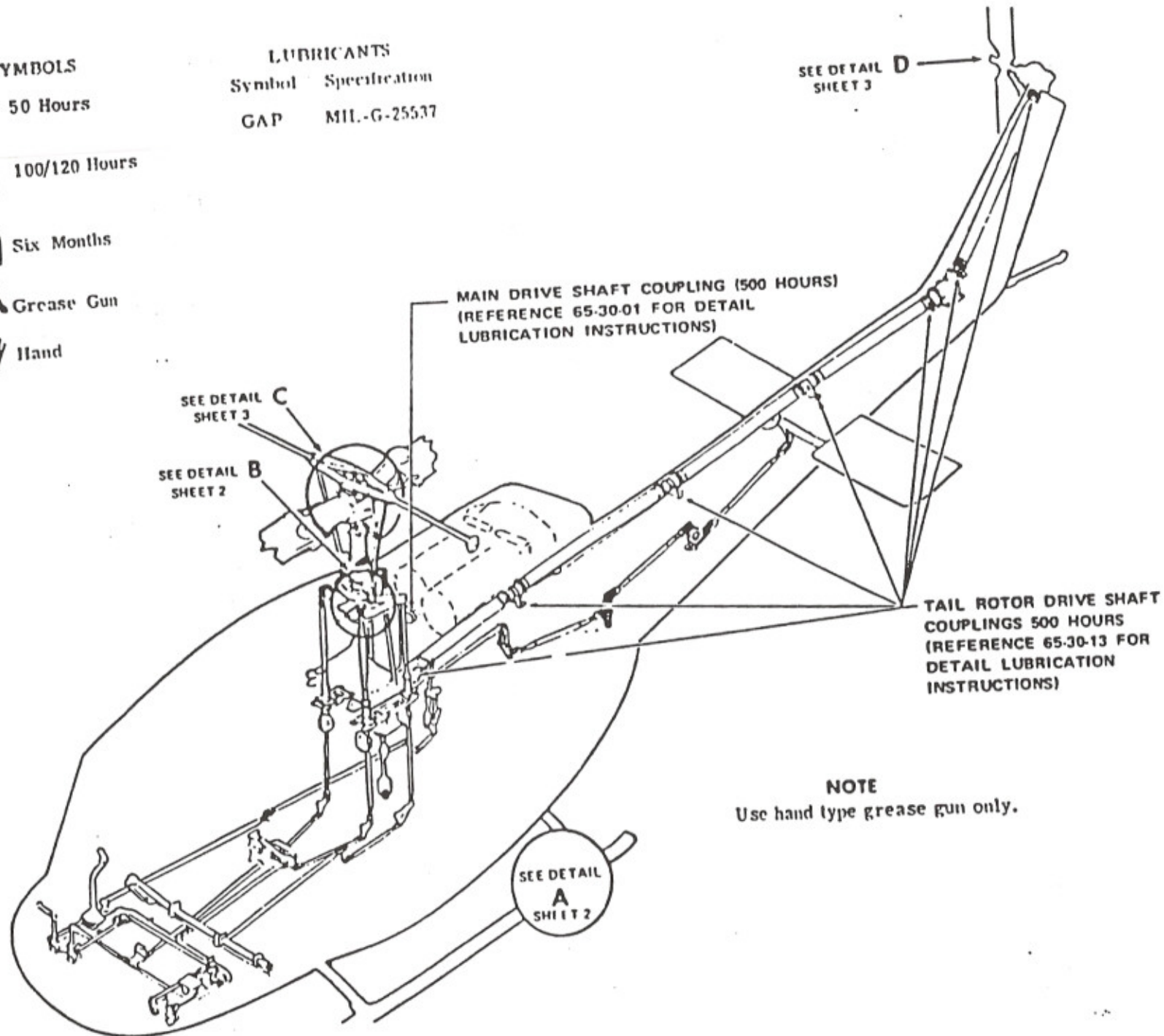
SERVICING MAIN ROTOR HUB

The main rotor hub has two oil reservoirs on pillow blocks and two on grips which are serviced with oil. Oil level can be checked by sight through the transparent inserts, and the reservoirs can be serviced as required, each through its own filler plug.

- SYMBOLS**
-  50 Hours
 -  100/120 Hours
 -  Six Months
 -  Grease Gun
 -  Hand

LUBRICANTS

Symbol	Specification
GAP	MIL.-G-25537



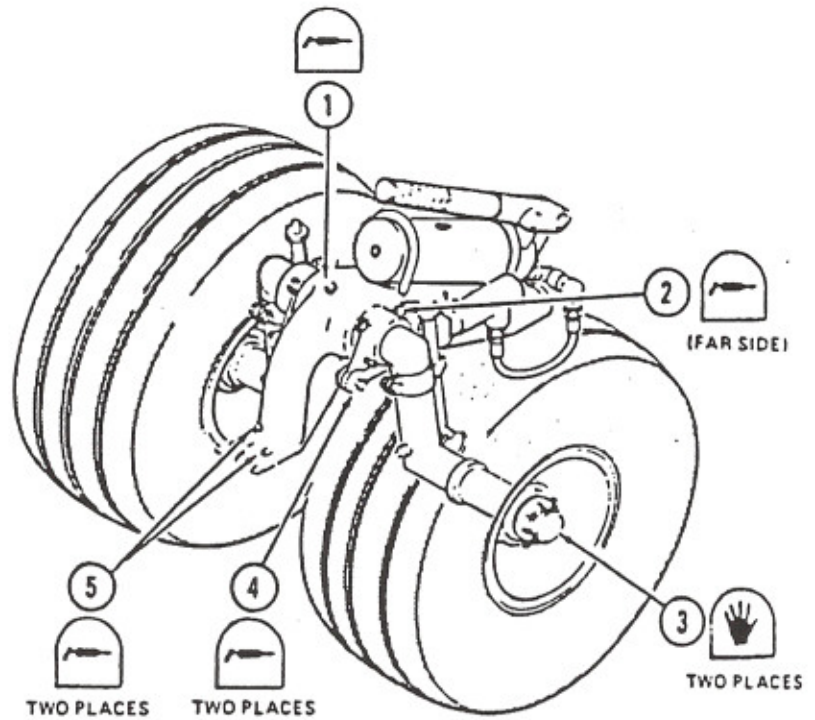
NOTE
Use hand type grease gun only.

1. Axle Pivot Point
2. Actuating Cylinder Trunnions ***
3. Wheel Bearings
4. Pin Assembly
5. Securing Pin
6. Collective Hub Assembly
7. Scissor Bearings
8. Swashplate Bearings
9. Collective Lever Trunnion ***
10. Outer Control Plate Trunnions ***
11. Control Plate Trunnions ***
12. Scissors Pivot Cover Plate *
13. Drive Plate Set

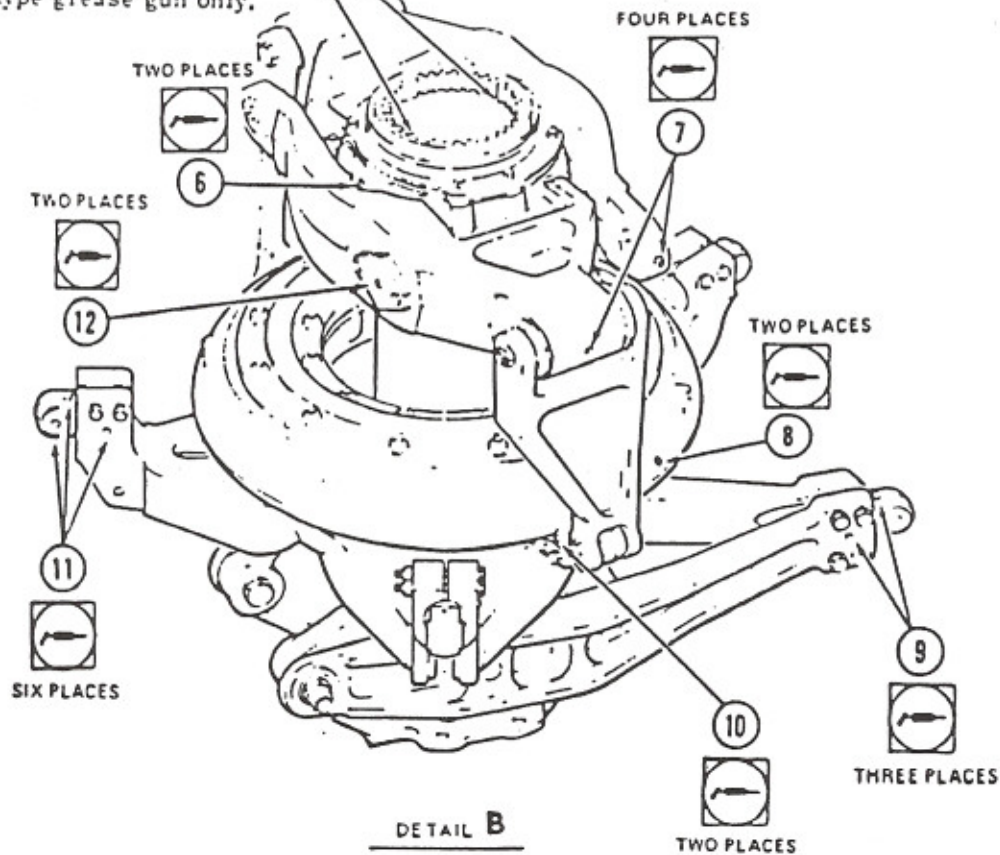
- * Lubricate more frequently if conditions warrant
- *** Purge Lubricate

Note

Use hand type grease gun only.



DETAIL A



DETAIL B

- 14. Crosshead Bearing
- 15. Pitch Change Link Universal *
- 16. Stabilizer Centerframe Bearing *
- 17. Damper Link Rod Ends *
- 18. Mixing Lever Bearings *

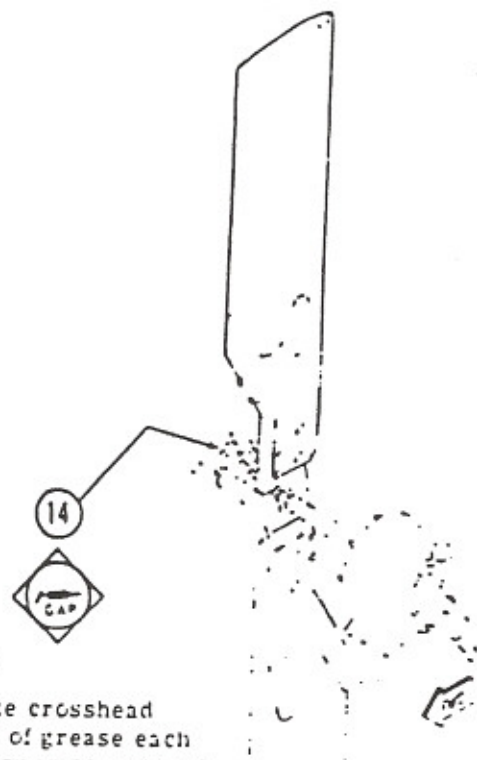
* Lubricate more frequently if conditions warrant.

Note

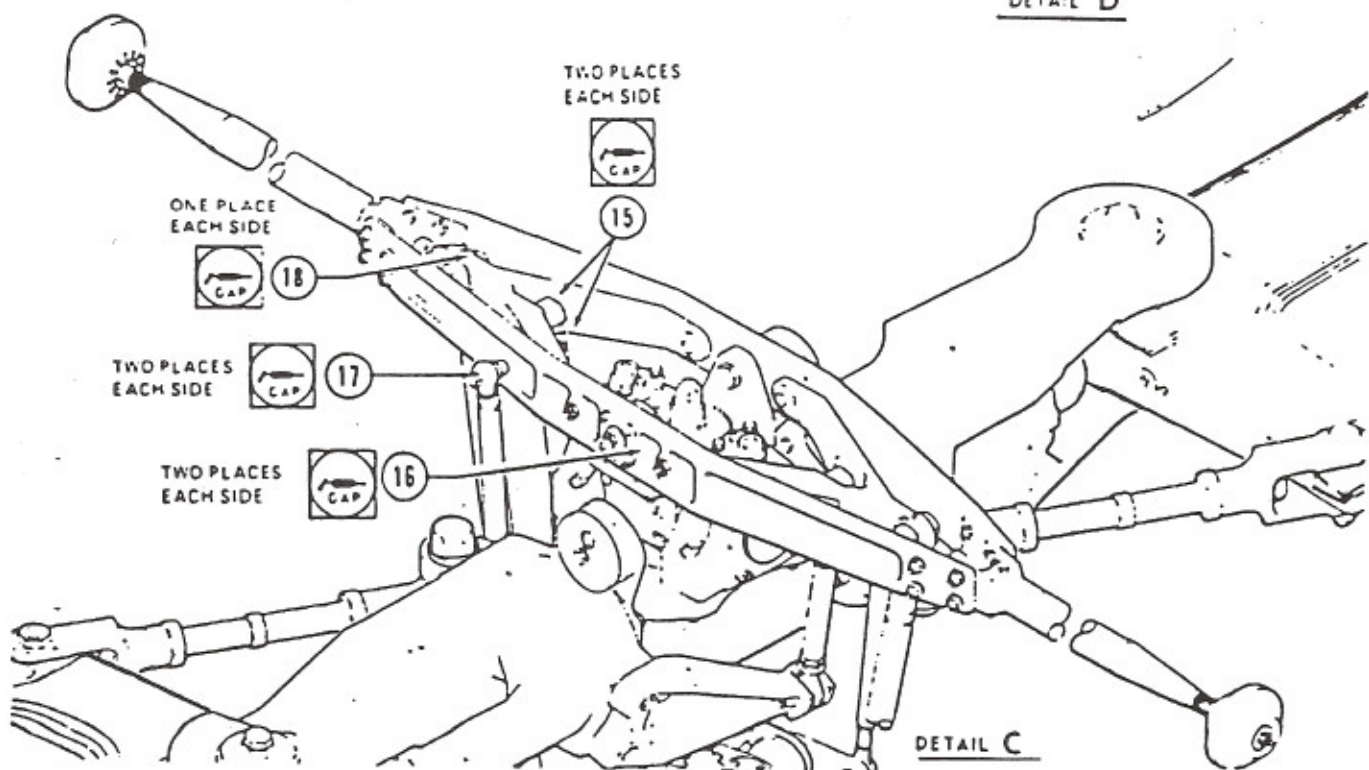
Use hand type grease gun only.

NOTE

Do not overlubricate crosshead bearing. Two shots of grease each 50 hours of operation is considered adequate.



DETAIL D



DETAIL C

Lubrication Chart (Sheet 3 of 3)

FUEL AND OIL DATA

The following list represents partial vendors' fuel brands meeting PWA Specification #522 for usage on PT6T-3 engines.

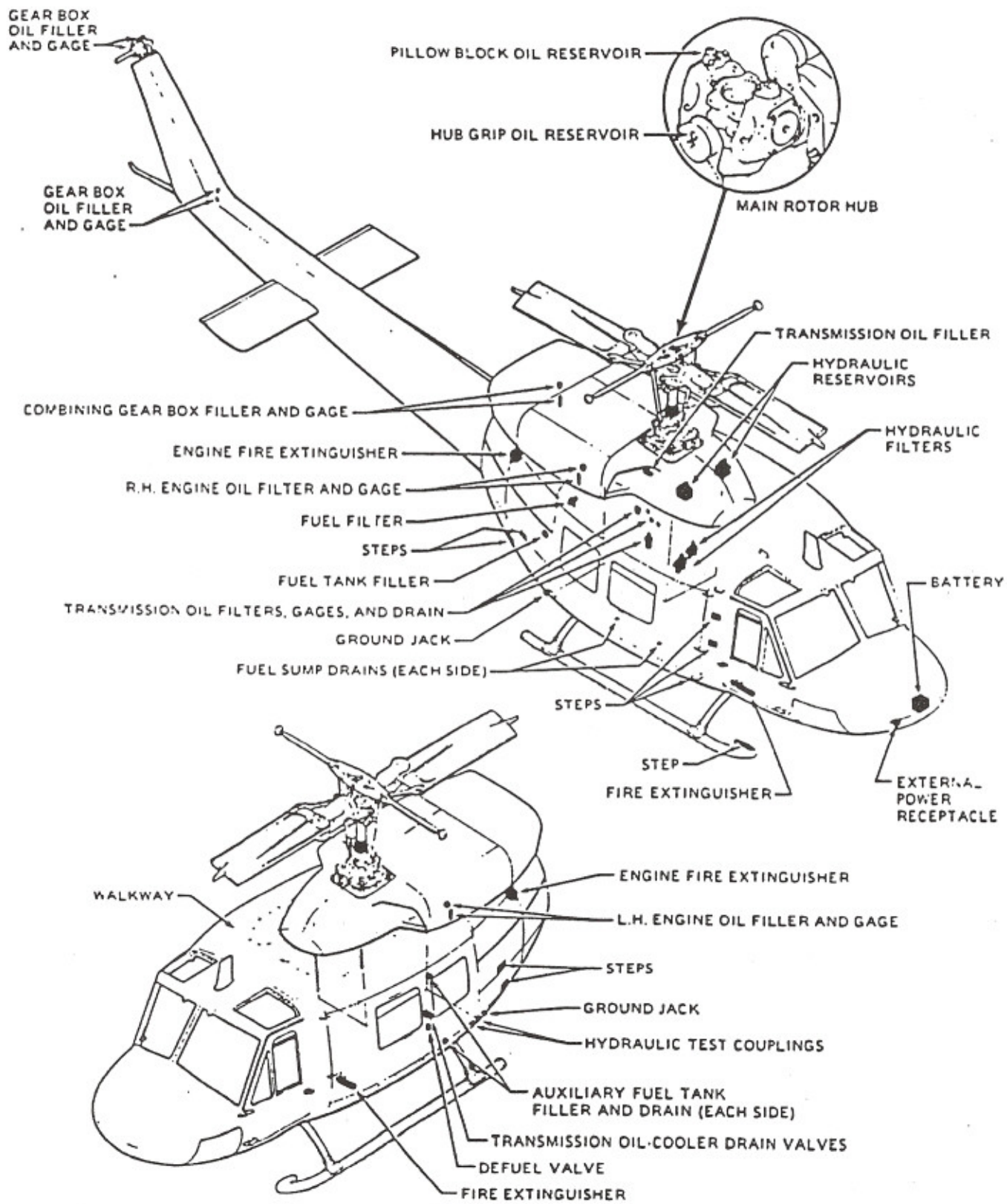
<u>Commercial Designation</u>	<u>Source or Vendor</u>
Philljet A-50	Phillips
Esso Turbo Fuel A, A-1, B	Humble
Enco Turbo Fuel A	
Aeroshell 640	Shell
Gulf Jet A, Jet A-1	Gulf
Avjet A, A-1, B	Texaco
Arco Jet A	Atlantic Richfield
Mobil Jet A, A-1, B	Mobil
BP Jet A, A-1, BPATK, ATG	British Petroleum
Chevron Jet Fuel A, A-50, A-1, B	Standard of California

The following list represents partial vendors' oil brands meeting PWA Specification No. 521 and Subsequent (3 Centistokes, Type I):

U.S.A.	VENDOR	CANADA	NAME OF OIL
BP (North America) Ltd. 620 Fifth Ave. New York, N.Y. 10020		PT Oil Limited 1245 Sherbrooke St. West Montreal 109, Quebec	BP Aero Turbine Oil 15
Sinclair Refining Co. 600 Fifth Avenue New York, N.Y. 10020			Sinclair Turbo S Oil Type 15
Shell Oil Company 50 West 50th St. New York, N.Y. 10020		Shell Canada Ltd. 505 University Ave. Toronto, Ontario	Shell Aircraft Turbine Oil 304
Staffer Chemical Co. 299 Part Ave. New York, N.Y. 10017			Staffer Jet I

The following list represents partial vendor's oil brands meeting PWA Specification No. 521 and MIL-L-23699 (5 Centistokes, Type II):

VENDOR		NAME OF OIL
U.S.A.	CANADA	
Esso International Incorporated 15 West 51st Street, New York, N.Y. 10019	Imperial Oil Ltd., 2 Place Ville Marie, Montreal 113, Quebec	Esso Turbo Oil 2380
Humble Oil & Refining Company P. O. Box 2180 Houston, Texas 77001		Enco Turbo Oil 2380
BP (North America) Ltd., 620 Fifth Avenue, New York, N.Y. 10020	BP Oil Limited, 1245 Sherbrooke St. West Montreal 109, Quebec	BP Enerjet 51
Sinclair Refining Co. 600 Fifth Ave. New York, N.Y. 10020		Sinclair Turbo S Oil Type II
Shell Oil Company 500 West 50th St. New York, N.Y. 10020	Shell Canada Ltd. 505 University Ave. Toronto, Ontario	Aero Shell Turbine Oil 500
Mobil Oil Corp. 150 East 42nd St. New York, N.Y. 10017		Mobil Jet Oil II
Stauffer Chemical Co. 299 Park Avenue, New York, N.Y. 10017		Stauffer Jet II
	Castrol Oil Canada Ltd. P. O. Box 3, New Toronto Postal Station Toronto, Ontario	Castrol 205



Servicing and Appliance Points