

## PULSAR PULSAIube TECHNICAL DATA

### INTRODUCTION

PULSAR Series pumps use two separate hydraulic oils: PULSAIube 7H, hydraulic oil for the pump housing and PULSAIube 8G, gear oil for the gearbox. The PULSAIube 7H will be a purple color and the PULSAIube 8G will be an amber color, to aid in distinguishing the fluids.

### PHYSICAL PROPERTIES

	<b>PULSAIube 7H Hydraulic Oil</b>	<b>PULSAIube 8G Gear Oil</b>
API Gravity	31	34.1
Viscosity SSU @ 100°F	175	2241
Viscosity SSU @ 210°F	51	225
Viscosity Index	193	167
Pour Point	-60°C(-51)°F	-40°C(-40)°F
Color	Purple	Amber

### REQUIRED CAPACITIES

The approximate amounts of oil required to fill the PULSAR Series pumps to specified levels are:

Hydraulic oil PULSAIube 7H (purple)  
! **Pump Housing** - 1400 ml (1.5 quarts)

Gear oil PULSAIube 8G (amber)  
! **P25H Series Gearbox** - 150 ml (0.16 quart)  
! **P55H Series Gearbox** - 200 ml (0.21 quart)

**Note: confusion between the two oils will seriously impair pump performance and can cause serious damage to the pump.**

### OIL CHANGE INTERVAL

The recommended oil change intervals are dependent upon the operating environment and the level of pump usage, classified as follows:

1. Normal service: Clean/dry atmosphere, an ambient operating temperature of 0°C to 40°C (32°F to 104°F) and up to 2,000 annual operating hours.
2. Severe Service: Humid atmosphere, an ambient operating temperature below 0°C (32°F) or above 40°C (104°F), and over 2,000 annual operating hours.

**PULSAube 7H HYDRAULIC OIL CHANGE PROCEDURE**

The recommended hydraulic oil change interval is 2 years for normal service and 1 year for severe service. The procedure is as follows:

1. Disconnect the power source to the drive motor.
2. Relieve all pressure from the piping system.
3. Remove the diagnostic window from the top of the pump housing.
4. Drain the oil by removing the drain plug on the bottom of the pump housing.
5. Replace the drain plug.
6. Fill the pump housing with purple PULSAube 7H Hydraulic Oil as described under "Hydraulic Oil Fill" above.
7. Replace the diagnostic window.

**PULSAube 8G GEAR OIL CHANGE PROCEDURE**

The recommended gear oil change interval is 5 years for normal service and 2 years for severe service. The procedure is as follows:

1. Disconnect the power source to the drive motor.
2. Relieve all pressure from the piping system.
3. Remove the fill plug from the top of the gearbox. (Do not remove the plug in the motor adaptor. It is for coupling access only.)
4. Drain the oil by removing the drain plug on the bottom of the gearbox.
5. Replace the drain plug.
6. Refill with fresh amber PULSAube 8G Gear Oil as described under "Gear Oil Fill" above.
7. Replace the fill plug.