

Oil Injection

Most outboard manufacturers use a mechanically driven oil pump mounted on the engine block that is connected to the shaft by way of a linkage arm. The system is powered by the crankshaft, which drives a gear in the pump, creating oil pressure. As the motor wear is increased to increase engine speed, the linkage arm also moves, opening a valve that allows more oil to flow into the oil pump.

Most mechanical injection systems incorporate one of warning alarms that are also connected to an engine speed/revolutions per minute (RPM) system that runs a built-in speed limiter. This subsystem is designed to reduce engine speed substantially when oil problems occur. This important feature gives a long time interval for warning drivers before damage to the shaft or use of injection products.

The procedure for filling these systems is simple. On most outboards there is an auxiliary oil reservoir which holds the lubricant oil. Simply fill the oil tank to the proper capacity.

Oil is highly absorbable to many common types of fuel oil. It will not mix with gas engines.

For more information on the oil injection system refer to the "Lubrication and Cooling" section of this manual.

Lower Unit

See Figures 7, 8 and 9

Regular maintenance and inspection of the lower unit is critical for proper operation and reliability. A lower unit can quickly fail if it becomes heavily contaminated with water or foreign matter or oil. The most common cause of a lower unit failure is water contamination.

Water in the lower unit is usually caused by flapping line or other foreign material, becoming entangled around the propeller shaft and damaging the seal at the crank to not removing it and eventually let the propeller shaft seal and allow water to enter the lower unit. Flapping line has also been known to get in grooves in the propeller shaft if left neglected over time. This area should be checked frequently.

OIL RECOMMENDATIONS

See Figure 10

Use only Quakerstate Quaker-Cut or an equivalent high quality SAE 90-W weight tapered gear oil. These oils are proprietary lubricants designed to ensure optimal performance and to minimize corrosion in the lower unit.

WARNING: It is this lower unit lubricant that prevents corrosion and lubricates the internal parts of the drive gears. Lack of lubrication due to water contamination or the improper type of oil can cause later damaging lower unit failure.

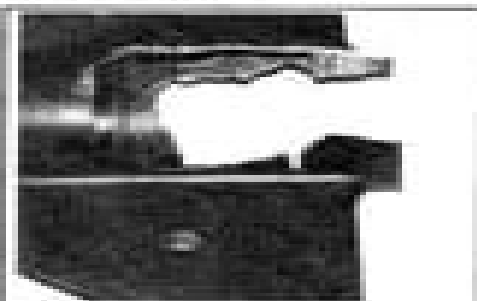


Fig. 7 This lower unit was destroyed because the housing exterior seal flapped due to lack of lubrication

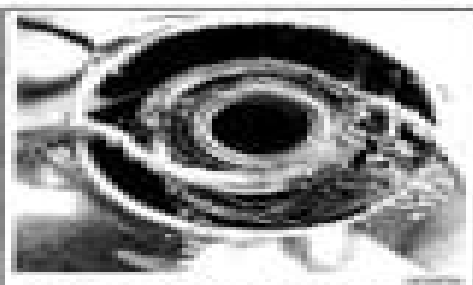


Fig. 8 Excellent view of rope and flapping line entangled behind the propeller. Exposed flapping line can actually cut through the seal, allowing water to enter the lower unit and lubricant to escape

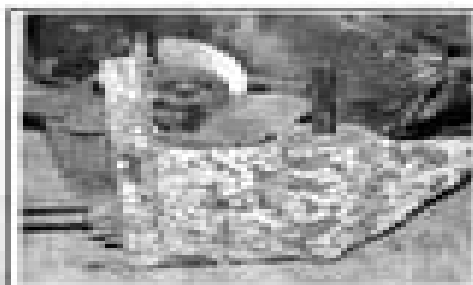


Fig. 9 This lower unit has been left in the water for too long with very little if any maintenance done to it

DRAINING AND FILLING

See Figures 11 and 12

CAUTION

The EPA warns that prolonged contact with used engine oil may cause a number of skin disorders, including cancer! You should make every effort to minimize your exposure to used engine oil. Protective gloves should be worn when changing the oil. Wash your hands and any other exposed skin areas as soon as possible after exposure to used engine oil. Soap and water or waterless hand cleaner should be used.

1. Place a suitable container under the lower unit.
2. Loosen the oil drain plug on the lower unit. This step is important if the oil level plug cannot be loosened or removed, the complete lower unit lubricant cannot be performed.

WARNING: Do not oil filler plugs when the lower unit is hot. Expanded lubricant will be released through the plug hole.

3. Remove the fill plug from the lower end of the gear housing followed by the oil level plug.
4. Allow the lubricant to completely drain from the lower unit.
5. If applicable, check the magnet end of the drain screw for metal particles. Some amount of metal is considered normal wear to be expected but if there are signs of metal chips or excessive metal particles, the gear case needs to be more carefully inspected.
6. Inspect the lubricant for the presence of a milky white substance, water or metallic particles. If any of these conditions are present, the lower unit should be overhauled immediately.
7. Place the outboard in the proper position for filling the lower unit. The lower unit should not be tilted to either port or starboard and should be completely vertical.
8. Insert the lubricant tube into the oil drain hole at the bottom of the lower unit and insert lubricant until the warning begins to appear but don't seal hole.

WARNING: The lubricant must be filled from the bottom to prevent air from being trapped in the lower unit. An improper lubricant and over-cause a lack of lubrication or a false lubricant level in the lower unit.

9. On outboard equipped to carry a tube in with the larger quantities, the using a pump to fill the gear case through the shaft plug.
10. Check new gaskets, bearings, metal the oil level and vent plugs first, then insert the oil fill plug.
11. Wipe the excess oil from the lower unit and inspect the unit for leaks.
12. Place the used lubricant in a suitable container for transportation to an authorized recycling facility.

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Editors of Haynes Manuals



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