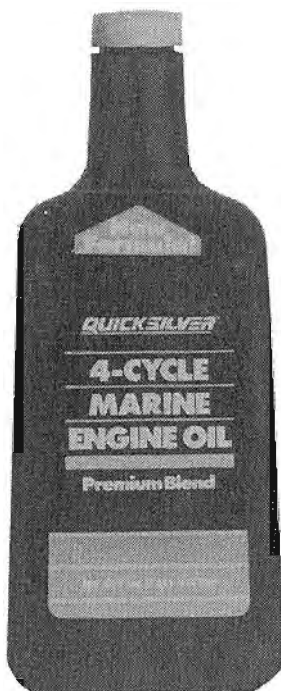


NUMBER: 85-34

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QUICKSILVER 4-CYCLE MARINE ENGINE OIL



Mercury Marine's recent introduction of a new 25W-40 Quicksilver 4-Cycle Marine Engine Oil has raised numerous questions since this is the first time a multi-viscosity oil has been recommended in place of straight weight oils for MerCruiser engines. This bulletin should answer those questions as well as enable you to explain the reasons behind this product improvement to your customers.

This oil is not to be confused with common automotive type multi-viscosity oils. It was formulated by our engineers for use in the marine environment and to our knowledge, is the only oil of its kind on the market today.

Common automotive type multi-viscosity oils have not in the past nor are they now recommended because they are blended using a light viscosity base weight oil such as 10W or 20W. This light base oil gives good flow characteristics in cold weather, but thins out too much under warm operating conditions to provide proper lubrication. To increase the lubricating ability of the light base oil, additives called "viscosity index improvers" are added. The problem found with viscosity index improvers is they tend to break down under severe loads and operating temperatures to which marine engines, but not automotive, are routinely subjected. As this break down occurs, the engine receives protection from only the light base oil. Inadequate protection can cause premature engine wear and/or failure.

Quicksilver 4-Cycle Marine Engine Oil "does not use any viscosity index improvers". It is formulated from a premium 25W base oil and a premium 40W base oil. This formulation results in an oil which acts like a straight weight oil, naturally changing its viscosity with the temperature. It flows freely in cold temperatures and provides an excellent lubrication value under severe loads and operating temperatures.

And, because of the unique demands under which marine engines operate, it contains a higher percentage of each additive than common automotive type oils to inhibit rust and provide extreme pressure protection, for example, of the valve train system.

If Quicksilver 4-Cycle Marine Engine Oil is unavailable and a substitute must be used, Mercury Marine suggests following the oil recommendations below:

1. Prevailing daytime temperature versus viscosity recommendations:

- 50° F (10° C) and above - 40W SE or SF
- 32° F (0° C) to 50° F (10° C) - 30W SE or SF
- 0° F (-18° C) to 32° F (0° C) - 20W SE or SF

2. Engine oil recommendation:

IMPORTANT: The use of automotive type multi-viscosity oils specifically is not recommended for use in MerCruiser engine. In those areas, however, where the recommended straight weight oil is not available, a multi-viscosity 20W-40 ("SE" or "SF") or, as a second but less preferable choice, 20W-50 ("SE" or "SF") may be used. The use of multi-viscosity oils (other than 20W-40 or 20W-50), oils which contain "solid" additives, non-detergent oils, or low quality oils specifically are not recommended.

Quicksilver 4-Cycle Marine Engine Oil is available in the following sizes:

- P/N 92-13831A12 32 oz. plastic bottle, 12/case
- P/N 92-13830A 2 2-1/2 gal. plastic bottle, 2/case
- P/N 92-13829A 1 55 gal. drum