



Mobil Delvac 1600 Series

Mobil Commercial Vehicle Lube , Thailand

Heavy Duty Diesel Engine Oils

Product Description

Mobil Delvac 1630, 1640 and 1650 are extra high performance diesel engine oils formulated from advanced base oils and a balanced additive system to meet or exceed the demanding specifications of the world's leading builders of modern diesel engines. They are recommended by ExxonMobil for use in European and Japanese-designed intercooled, highly turbocharged engines operating under the most severe on and off-highway conditions.

Features and Benefits

Today's low emission engines place increasing demands on engine lubricants. Tighter engine designs reduce oil consumption, resulting in less fresh oil make-up to replenish depleted additives. Higher piston top ring positioning brings the oil film closer to the extreme combustion temperatures increasing thermal stress on the lubricant. Higher fuel injection pressure and retarded timing improve burn efficiency, but also increase engine part loading, temperatures, and soot in the oil. The advanced technology in Mobil Delvac 1630, 1640 and 1650 provides exceptional performance in both modern diesel engines as well as older models. The key benefits include:

| Features | Advantages and Potential Benefits |
|--|--|
| Outstanding protection against oil thickening, high temperature deposits, sludge build-up, and oil degradation | Outstanding control of high temperature deposits Extended oil life above OEM recommended Oil Drain Intervals(ODI) Excellent protection against ring sticking |
| Exceptional wear protection | Reduces maintenance costs and extends engine life |
| Excellent soot handling capabilities | Maintains viscosity control and reduces wear |

Applications

Recommended by ExxonMobil for use in:

- Diesel-powered equipment from leading diesel engine manufacturers
- On-highway light and heavy-duty trucking
- Off-highway industries including: construction, quarrying, and agriculture
- Mixed diesel and gasoline fleets

Specifications and Approvals

| This product has the following approvals: | 1630 | 1640 | 1650 |
|---|------|------|------|
| MTU Oil Category 2 | X | X | |
| ZF TE-ML 04B | X | X | |
| ACEA E2 | | X | |
| API SF | | X | |

| This product has the following approvals: | 1630 | 1640 | 1650 |
|---|------|------|------|
| MAN 270 | | X | |

| This product is recommended for use in applications requiring: | 1630 | 1640 | 1650 |
|--|------|------|------|
| ACEA E2 | X | | |
| Allison C-4 | X | | |
| API CF | X | X | X |
| API SF | X | | X |
| MAN 270 | X | | |

Properties and Specifications

| Property | 1630 | 1640 | 1650 |
|--|--------|--------|--------|
| Grade | SAE 30 | SAE 40 | SAE 50 |
| Ash, Sulfated, mass%, ASTM D874 | 1.4 | 1.4 | 1.4 |
| Density @ 15.6 C, g/cm ³ , ASTM D4052 | | 0.892 | 0.896 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 250 | 256 | 290 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 11.5 | 14.1 | 19.5 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 90 | 132 | 202 |
| Pour Point, °C, ASTM D97 | -30 | -21 | -18 |
| Total Base Number, mgKOH/g, ASTM D2896 | 12 | 12 | 12 |
| Viscosity Index, ASTM D2270 | 117 | 112 | 110 |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to

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