



## Mobiltrans HD Series

Mobil Commercial Vehicle Lube , Philippines

Heavy Duty Transmission and Drivetrain Lubricants

### Product Description

Mobiltrans HD 10W, 30, 50, and 60 are extra high performance, heavy duty transmission and drive-train lubricants engineered to meet or exceed the requirements rigorous Caterpillar TO-4 specification. This product line is uniquely designed to optimise the performance of powershift transmissions, gearboxes, and final drive hydraulic applications, they provide outstanding protection even in high pressure systems.

This technology combines selected base oils and an advanced additive system to deliver the precise performance parameters needed to maximise the product construction, quarrying, and mining equipment operating in severe conditions.

### Features and Benefits

Today's technology has vastly improved the performance capabilities of heavy duty earth moving equipment in terms of load, speed, control, precision, and reliability through innovative power train designs. These designs have increased the requirements of power-train fluids to deliver higher level of performance, productivity and efficiency. Friction control, wear protection, thermal stability, shear stability, rust and corrosion protection, and pumpability are features that must be optimally balanced to provide extended clutch life, slippage control, maximum drawbar loading, and high load operation even on an inclined slope at extreme temperatures. Mobiltrans 10W, 30, 50, 60 deliver exceptional performance in today's power train transmissions, drive trains, and hydraulic systems. The key benefits include:

| Features   | Advantages and Potential Benefits   |
|--|---|
| Balanced static and dynamic friction coefficients.             | Optimised clutch-friction retention and slippage control.   |
| Compatible with modern clutch materials and elastomers.        | Longer clutch life and higher performance.  |
| Increased levels of anti-wear and load carrying capability.    | Reduced gear wear and extended life in transmissions, gearboxes, and final drives.<br>Greater productivity from reduced downtime. |
| Excellent foam control protection.                             | Top performance in wet brakes; excellent control of brake chatter.  |
| Excellent thermal and oxidation stability.                     | Outstanding hydraulic oil stability and protection against high-pressure pump wear.   |
| Lower viscosities offer very good low temperature pumpability. | Reduced time from start-up to production.   |

### Applications

Recommended by ExxonMobil for use in:

- Heavy duty transmissions, gear boxes, final drives, and hydraulic systems used in off-highway applications.
- Off-highway industries including: mining, construction, quarrying, and agriculture.
- Manual, powershift, and automatic transmissions where Allison C-4 fluids (SAE 10W and 30 grades) are called for including Twin Disc and transmissions calling for F fluids.
- Most mobile equipment hydraulic applications.

### Specifications and Approvals

| This product has the following approvals: | 30 | 50 | 60 | 10W |
|---|----|----|----|-----|
| ZF TE-ML 03C                              | X  |    |    | X   |
| ZF TE-ML 07F                              | X  |    |    |     |

| This product is recommended for use in applications requiring: | 30 | 50 | 60 | 10W |
|--|----|----|----|-----|
| Allison C-4  | X  |    |    | X   |
| KOMATSU KES 07.868.1   | X  | X  |    | X   |

| This product meets or exceeds the requirements of: | 30 | 50 | 60 | 10W |
|--|----|----|----|-----|
| Caterpillar TO-4                                   | X  | X  | X  | X   |

### Properties and Specifications

| Property   | 30     | 50     | 60     | 10W     |
|--|--------|--------|--------|---------|
| Grade  | SAE 30 | SAE 50 | SAE 60 | SAE 10W |
| Density @ 15 C, kg/l, ASTM D4052                           | 0.886  | 0.91   | 0.91   | 0.864   |
| Flash Point, Cleveland Open Cup, °C, ASTM D92              | 242    | 242    | 244    | 233     |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445 | 10.9   | 18.1   | 25     | 6.2     |
| Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445  | 96.1   | 205.67 | 332.74 | 40.3    |
| Pour Point, °C, ASTM D97                                   | -30    | -18    | -12    | -36     |
| Viscosity Index, ASTM D2270                                | 95     | 97     | 96     | 115     |

### 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.as>

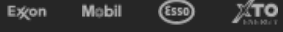
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04-2022

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 change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://www.exxonmobil.com)

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