



Mobiltrans HD Series

Mobil Commercial Vehicle Lube , Papua New Guinea

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 of the rigorous Caterpillar TO-4 specification. This product line is uniquely designed to optimise the performance of powershift transmissions, gearboxes, and final drives. In 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 productivity of 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 HD 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. 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 Type 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.aspx>

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