

Mobil

Product Data Sheet

Mobiltrans HD Series

Premium Transmission and Drive Train Lubricants

Product Description

Mobiltrans HD Series are premium quality, latest technology products primarily intended for use in transmissions, drive trains and hydraulic systems of off-highway contractor equipment. They meet the demanding requirements of the Caterpillar TO-4 specification, which cannot be satisfied by commercial engine oil technology. Mobiltrans HD Series are formulated from highly refined mineral oils and an advanced additive system which provide outstanding oxidation resistance, compatibility with elastomers, excellent protection against rust and corrosion, and an extremely low foaming tendency. They have outstanding load-carrying capability and gear wear protection as measured by the FZG Gear Test and they provide excellent antiwear performance in powershift transmissions, gearboxes and final drives. In hydraulic applications, they provide maximum protection even in the highest pressure systems.

Specifications

Mobiltrans HD Series meet or surpass the following specifications:

- API GL-3
- Caterpillar TO-4
- Allison C-4
- Vickers 35VQ25 Pump Test for hydraulic oils

Benefits

Mobiltrans HD Series offer the following benefits:

- Optimized clutch-friction retention and slippage control
- Significantly improved clutch life compared with the best CD/TO-2 engine oils
- Greatly reduced gear wear in transmissions, gearboxes and drive trains
- Excellent performance in wet brakes and elimination of brake chatter
- Outstanding hydraulic oil stability and protection against high pressure pump wear
- Lower maintenance and operating costs

Applications

Mobiltrans HD Series are recommended for the lubrication of the most demanding transmissions, drives trains, clutches and hydraulic systems in Caterpillar, Case, Komatsu and other off-highway contractor, logging, mining and farming equipment. They can also be used in manual, powershift and

automatic transmissions in on- and off-highway applications requiring Allison C-4 performance levels. They are suitable for most automotive hydraulic applications.

Mobiltrans HD Series are recommended for most spur, helical, bevel and worm gearboxes, even under severe duty applications. Since the products do not contain friction modifiers, they can be used in Twin Disc clutches and Type F transmission oil applications within the ambient temperature ranges appropriate to their SAE viscosity grade.

Typical Properties

Mobiltrans HD		10W	30	50
Product Code		973296	973916	973553
	Test Method			
SAE Grade		10W	30	50
ISO VG		32	100	220
Viscosity	ASTM D445			
cSt at 40°C		48	107	216
cSt at 100°C		6.9	11.6	18.3
CCS Viscosity	ASTM D5293			
P at -20°C		30	-	-
Viscosity Index	ASTM D2270	100	96	93
Sulphated Ash, wt %	ASTM D874	1.2	1.2	1.2
Total Base Number	ASTM D2896			
(TBN) mg KOH/g		7.6	7.6	7.6
Flash Point, °C	ASTM D92	204	252	260
Pour Point, °C	ASTM D97	-33	-27	-18

Health & Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin contact areas with soap and water. Additional health and safety information on these products, including Material Safety Data Bulletins, is available on request from your local Mobil company.