

Tech Data



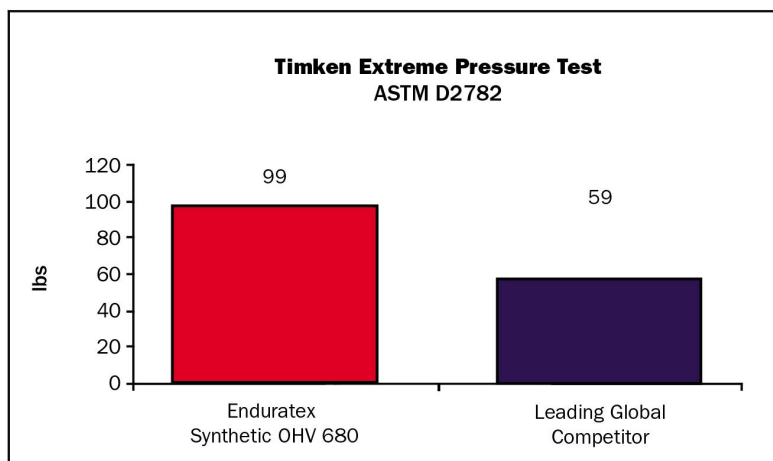
ENDURATEX™ Synthetic OHV 680

Petro-Canada™ ENDURATEX™ Synthetic OHV (Off-Highway Vehicle) 680 is a premium performance, extreme pressure lubricant.

ENDURATEX Synthetic OHV 680 is formulated using PAO and ester-based technology. As with all our other ENDURATEX Synthetic oils, this product is a premium performance, extreme pressure lubricant that is capable of withstanding severe load conditions, helping to reduce wear so that component life is maximized. It is approved by General Electric for the lubrication of both DC and AC motorized wheel gearbox applications in off-highway haul trucks.

Features and Benefits

- **Outstanding anti-wear protection**
 - Extends equipment life by reducing wear
 - Designed to protect equipment being operated under tough high load conditions
 - Provides reliable operation in haul truck service
- **Excellent film strength and extreme pressure properties**
 - Extends gearbox life
 - Reduces likelihood of seizure, scuffing or spalling of gear teeth under high load conditions
- **Synthetic formulation reduces friction**
 - Provides efficient lubrication over a wide temperature range
- **Excellent extreme temperature performance**
 - ENDURATEX Synthetic OHV 680 helps protect your equipment in the most extreme temperature conditions
- **Wider range of service temperatures**
 - High Viscosity Index (VI) provides adequate lubrication over a wide temperature range



Applications

Petro-Canada's ENDURATEX Synthetic OHV 680 is recommended for use in the lubrication of both DC and AC motorized wheel gearbox applications in off-highway haul trucks where they are operated under heavy duty conditions such as heavy loading, slow speed, shock loads and in wide extremes of temperature. Other applications for this product include:

- Gears on drag lines or other heavy-duty construction, excavation and mining equipment
- Waste water treatment plants with worm gears
- Industrial gears working in severe service (ie steel mills)
- Conveyor and chain drives
- Compatible with equipment containing bronze components and worm gears

The tough oil film reduces friction in gearboxes. The high viscosity index of ENDURATEX Synthetic OHV 680 means it can retain its viscosity at high operating temperatures.

ENDURATEX Synthetic OHV 680 is designed to work in high temperature conditions and maintain exceptional lubricant film strength. Enduratex Synthetic OHV 680 was formulated to withstand heavy loads and severe

conditions resulting in very good micropitting resistance.

When converting a gearbox to ENDURATEX Synthetic OHV 680, it is recommended it be cleaned and flushed first to gain the full benefit of the product. ENDURATEX Synthetic OHV 680 is miscible with mineral oils, polyalphaolefin lubricants and compatible with most seal materials except natural rubber.

The ENDURATEX Synthetic OHV 680 can be used over a wide temperature range. Check with the OEM for acceptable operating temperature limits.

ENDURATEX Synthetic OHV 680 meets the following OEM standards:

- DIN 51517-3 (CLP)
- General Electric D50E27E
- AISE 224 (formerly US Steel 224)
- AGMA 9005-E02 (EP)
- David Brown S1.53.101 Type E
- Cincinnati Machine P-34

ENDURATEX Synthetic OHV 680 has the General Electric D50E27E approval for use in off highway vehicle motorized wheel gearboxes.

Typical Performance Data

PROPERTY	TEST METHOD	ENDURATEX SYNTHETIC OHV
		680
Density, kg/L at 15 °C	D4052	0.8637
Colour	D1500	<1.0
Viscosity, cSt at 40 °C	D445	699
cSt at 100 °C		63.6
SUS @ 100 °F		3657
SUS @ 210 °F		305
Viscosity Index	D2270	161
Pour Point, °C (°F)	D5950	-42 / -44
Temperature required for 150,000 cP, °C (°F)	D2983	-23 / -9
Flash Point, COC, °C (°F)	D92	251 / 484
Rust, Procedure B, 4 h	D665	Pass
Copper Corrosion, 3h @ 100 °C	D130	1a
Timken OK Load, kg (lb)	D2782	45 / 99
Four Ball EP weld, kg (lb)	D2783	250 / 550

The values quoted above are typical of normal production. They do not constitute a specification.

To order product or to learn more about how Petro-Canada Lubricants
can help your business visit: lubricants.petro-canada.com
or contact us at: lubecsr@petrocanadalsp.com



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