



A HOLLYFRONTIER BUSINESS

TECH DATA

ENDURATEX™

SYNTHETIC OHV 680

INTRODUCTION

ENDURATEX Synthetic OHV (Off-Highway Vehicle) 680 is a premium performance, extreme pressure lubricant, formulated using polyalphaolefin (PAO) and ester-based technology. It has been developed to withstand severe load conditions, and help to reduce wear to maximize equipment protection and component life. Additionally, ENDURATEX Synthetic OHV is approved by General Electric against GE D50E35E specification 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 high load conditions

Excellent film strength and extreme pressure properties

- Extends gearbox life and provides reliable operation in haul truck service
- Reduces likelihood of seizure, scuffing or spalling of gear teeth under high load conditions

Wide range of extreme service temperature

- Synthetic formulation and high viscosity index provide efficient lubrication over a wide temperature range and protection in extreme temperature conditions

APPLICATIONS

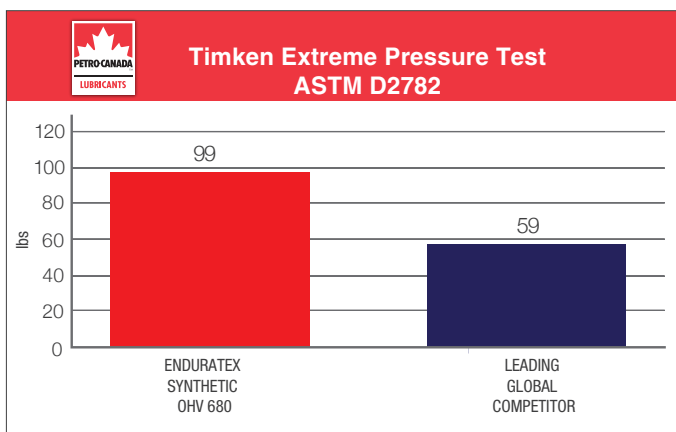
ENDURATEX Synthetic OHV 680 is approved against the General Electric D50E35E specification for use in the lubrication of both DC and AC motorized wheel gearbox applications in off-highway haul trucks. It is also designed for industrial gearboxes operated under heavy duty conditions such as heavy loading, slow speed, shock loads and in wide extremes of temperature.

Recommended applications for this product include:

- All types of enclosed gear drives
- Industrial, heavy duty gear applications with extreme service conditions
- Bearings, including plain, rolling elements and anti-friction types
- Conveyor and chain drives
- Compatible with equipment containing bronze components, including worm drives

ENDURATEX Synthetic OHV 680 creates an optimized oil film that reduces friction in gearboxes. The high viscosity index of ENDURATEX Synthetic OHV 680 allows the fluid to maintain a high viscosity and film strength at high operating temperatures.

It is formulated to withstand heavy loads and severe conditions, resulting in excellent micropitting resistance.



OEM STANDARDS AND APPROVALS

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

ENDURATEX Synthetic OHV 680 meets the following OEM standards:

- DIN 51517-3 (CLP)
- AGMA 9005-F16 (AS)
- AIST 224 (Formerly US Steel 224)
- David Brown S1.53.101 Type E
- Former Fives (Cincinnati Machines) P-34
- General Electric D50E35E for use in off highway vehicle motorized wheel gearbox

CHANGING OVER TO ENDURATEX SYNTHETIC OHV 680

When converting a gearbox to ENDURATEX Synthetic OHV 680, it is recommended to drain, flush and then refill the compartment in order to gain the full benefit of the product.

ENDURATEX Synthetic OHV 680 is miscible with mineral oils, polyalphaolefin (PAO) lubricants, and it is compatible with most seal materials except natural rubber.

TYPICAL PERFORMANCE DATA

Property	Test Method	ENDURATEX SYNTHETIC OHV680
Density, kg/L at 15°C	D4052	0.8607
Colour	D1500	<1.0
Viscosity, cSt at 40°C cSt at 100°C	D445	707 64.4
Viscosity Index	D2270	161
Pour Point, °C (°F)	D5950	-36 (-33)
Temperature required for 150,000 cP, °C (°F)	D2983	-23 (-9)
Flash Point, COC, °C (°F)	D92	280 (536)
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.

Learn more about us: lubricants.petro-canada.com
Contact us: lubecsr@petrocanadalsp.com

Committed to the disciplined operation of our business.



Petro-Canada Lubricants Inc.
2310 Lakeshore Road W. Mississauga, Ontario, Canada L5J 1K2
lubricants.petro-canada.com

™ Owned or used under license.
IM-8060E (2020.01)