



MADE IN HOLLAND

## TECHNICAL DATA SHEET

# ENDUROX XLD

FULL SYNTHETIC TRUCK ENGINE OIL

### Description

Endurox XLD is an ultra high performance synthetic heavy duty diesel engine oil developed to meet the requirements of modern European engines meeting Euro 4 emission norms. Endurox XLD is formulated with premium quality synthetic base fluids and advanced additive technology to offer superior engine protection and significantly extended drain intervals. This oil meets the latest ACEA E7 & ACEA E4 specifications and is suitable for severe duty applications and extended service life in most modern European vehicles.

Endurox XLD has exceptional anti-wear properties that provides enhanced protection against wear, corrosion and bore polish to ensure longer engine life. Excellent soot handling capability minimizes soot related wear and oil thickening and outstanding thermo-oxidative stability reduces sludge build-up & deposits and controls viscosity increase. Advanced detergency/dispersancy results in cleaner engines and longer component life and excellent low temperature fluidity along with high temperature viscosity retention ensures highest degree of reliability even under severe operating conditions. Superior TBN retention property coupled with above features lead to significantly extended drain intervals.

### Benefits

Endurox XLD is suited for all turbocharged and naturally aspirated diesel engines used in on-road applications, mining, construction and other off highway applications and for the latest heavy duty diesel vehicles not employing diesel particulate filters operating in very low ambient temperatures. Endurox XLD SAE 5W-30 is also suitable for engines employing Exhaust Gas Recirculation.



### Performance level 5W/30

- API CI-4/CH-4
- ACEA E4/E7
- MB 228.5
- Volvo VDS-3
- MAN 3277
- MTU Type 3
- Cummins CES 20071/2/6/7/8
- Renault RXD
- Mack EO/M Plus
- Deutz QC IV-05

### Performance level 10W/40

- API CI-4/CH-4
- ACEA E4/E7
- Volvo VDS-3
- MB 228.5
- MAN 3277
- Renault RXD/RLD-2
- MTU Type 3



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### Typical Properties

SAE		5W/30	10W/40
Density 15 °C	kg/m3	857	874
Viscosity 40 °C	cSt	76.3	91.5
Viscosity 100 °C	cSt	12.2	13.6
Viscosity CCS -25 °C	cP		<7000
Viscosity CCS -30 °C	cP	<6600	
Viscosity Index		157	150
Pour point	°C	-45	-36
Flash point C.O.C.	°C	220	220
TBN	mg KOH/g	12.3	12.7
Sulphated Ash	%wt	1.90	1.12
Operating Temperature	°C	-30/150	-30/150