



HDAX[®] 6500 LFG Gas Engine Oil SAE 40

Ultra high performance low ash gas engine oil

Product description

HDAX 6500 LFG is an ultra high performance low ash dispersant/detergent type SAE 40 gas engine oil, specifically designed for landfill gas, biogas digester gas and sour gas applications.

HDAX 6500 LFG is formulated with premium quality base oils with very low sulphur, nitrogen and aromatic content, and contains ashless dispersancy and oxidation inhibitor additive technologies, with an advanced metallic detergent and anti-wear package.

HDAX 6500 LFG promotes reliable corrosion protection, without increasing combustion chamber deposits and aids piston deposit control, offering minimal ring sticking and providing scuffing protection to the cylinder liners, helping minimise oil consumption and lacquering.

Through reliable oxidation and nitration resistance, HDAX 6500 LFG offers a minimal viscosity increase.

Customer benefits

- Helps provide valve recession control, low deposit formation and minimises pre-ignition in four stroke engines running on harsh fuels
- Low phosphorus formulation offers catalyst protection
- Offers extended drain performance with strong base retention, oxidation and nitration resistance characteristics, through a combination of premium base fluids and a robust inhibitor package
- Minimises oxidation, sludge formation and oil thickening, helping protect against filter plugging and abrasive polishing wear
- Designed for corrosion control in engines burning high chlorofluorocarbon (CFC) and/or high sulphur fuels where high acidic condensate forms
- Aids corrosion resistance and improved liner life in intermittent operation

Product highlights

- **Advanced catalyst protection**
- **Extended drain intervals**
- **Deposit and sludge resistance**
- **High level wear protection**
- **Reliable corrosion resistance**

Selected specification standards include:

Caterpillar	Cummins
GE Jenbacher	MAN Truck & Bus
MWM	TEDOM
Waukesha	

Applications

HDAX 6500 LFG is recommended for:

- Four-stroke engines fuelled by landfill gas containing elevated levels of chlorofluorocarbons (CFC's)
- Sour gas applications where corrosive wear is a concern
- Engines where low ash oils are preferred

Approvals, performance and recommendations

Approvals

- Caterpillar CG132, CG170 and CG260 engines
- Cummins QSV Landfill gas engines
- GE Jenbacher TA 1000-1109
Fuel Class B (biogas, sewage gas) and Class C (landfill gas) for the following engine types and versions:
 - Type 2 & 3
 - Type 4 Versions A & B
 - Type 6 Versions C & E
- MAN Truck & Bus M 3271-4 (Special gas)
- MWM (Caterpillar Energy Solutions) Gas Engines ^[1]
- TEDOM 61-0-0281.1
Fuel types L (landfill), B (biogas), S (sewage gas)

Recommendations

- Suitable for use in Waukesha engines
- Proof of Performance gained during extensive field trials in Caterpillar engines

^[1] Recommended for use with sewage gas, landfill gas and other biogases

Typical test data		
Test	Test Methods	Results
Viscosity Grade		SAE 40
Shelf Life: 60 months from date of filling indicated on the product label.		
Density, 15°C, kg/l	ASTM D4052	0.875
Viscosity, Kinematic, 100°C, mm ² /s	ASTM D445	13.5
Pour Point, °C	ASTM D5950	-27
Flash Point, COC, °C	ASTM D92	268
Total Base Number, mg KOH/g	ASTM D2896	4.5
Sulphated Ash, %wt	ASTM D874	0.55

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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