HDAX 6500 LFG Gas Engine Oil SAE 30, 40

High performance low ash gas engine oils

Product description

HDAX 6500 LFG Gas Engine Oils are high performance low ash dispersant/detergent type SAE 30 and 40 gas engine oils, specifically designed for landfill gas, biogas digester gas and sour gas applications.

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

HDAX 6500 LFG Gas Engine Oils are designed to stay in grade and promote reliable corrosion protection without increasing combustion chamber deposits, aiding piston deposit control, contributing to minimal ring sticking and providing scuffing protection to the cylinder liners, helping minimise oil consumption and lacquering.

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 helps to protect catalysts.
- Helps extend drain performance with strong base retention as well as oxidation and nitration resistance characteristics through a combination of premium base fluids and a robust inhibitor package.
- Helps minimise oxidation, sludge formation and oil thickening, helping protect against filter plugging and abrasive polishing wear.
- Designed to help optimise corrosion control in engines burning high chlorofluorocarbon (CFC) and/or high sulphur fuels where high acidic condensate forms.

Product highlights

- **Effective catalyst protection**
- **Extended drain intervals**
- **Helps deposit and sludge resistance**
- **High level wear protection**
- **Promotes reliable corrosion resistance**

Selected specification standards include:

Caterpillar	Cummins
Jenbacher	MAN Truck & Bus
MWM (Caterpillar Energy Solutions)	TEDOM
Waukesha	

Applications

HDAX 6500 LFG is recommended for:

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

Approvals, performance and suitable for use

Approvals (SAE 40 only)

- Caterpillar CG Gas Engines
- Cummins QSV Landfill gas engines
- 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
  - Type 4 Versions B & D
  - Type 6 Versions C & E
- MAN Truck & Bus M 3271-4 (Special gas)
- MWM (Caterpillar Energy Solutions) TCG Gas Engines [1]
- TEDOM 61-0-0281.1
  Fuel types L (landfill), B (biogas), S (sewage gas)

Suitable for use

- HDAX 6500 LFG Gas Engine Oil SAE 40 is suitable for use in Waukesha engines
- Extensive Proof of Performance trials and operational experience with HDAX 6500 LFG Gas Engine Oil SAE 40 in Caterpillar G3400 and G3500 series engines.
- HDAX 6500 LFG Gas Engine Oil SAE 30 has been successfully used to lubricate a Pielstick PC 2.2 main propulsion engine of an icebreaker, running on MGO with a maximum sulphur content of 500 ppm, demonstrating improved control of piston deposits and liner polishing in comparison to a 12 BN marine engine oil. HDAX 6500 LFG Gas Engine Oil SAE 30 could also be applied in the auxiliary engines, compressors, propeller shaft bearings and rudder hydraulics on the same vessel.

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

Typical test data

Test	Test Methods	Results	
Viscosity Grade		**SAE 30**	**SAE 40**
Shelf Life: 60 months from date of filling indicated on the product label.			
Density, 15°C, kg/l	ASTM D4052	0.870	0.875
Viscosity, Kinematic, 100°C, mm^2/s	ASTM D445	11.4	13.5
Pour Point, °C	ASTM D5950	-27	-27
Flash Point, COC, °C	ASTM D92	258	268
Total Base Number, mg KOH/g	ASTM D2896	4.5	4.5
Sulphated Ash, %wt	ASTM D874	0.55	0.55

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see http://europe.chevronlubricants.com.

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