



# HDAX<sup>®</sup> 6500 LFG GAS ENGINE OIL

## SAE 40

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### PRODUCT DESCRIPTION

HDAX<sup>®</sup> 6500 LFG Gas Engine Oil is a premium quality high performance low ash dispersant/detergent type SAE 40 gas engine oil, specifically formulated for landfill gas, biogas, digester gas and sour gas applications.

### CUSTOMER BENEFITS

HDAX 6500 LFG Gas Engine Oil delivers value through:

- **Maximizes oil service life** — Combination of high performance premium base fluids and a robust inhibitor package offers extended service protection with oxidation and nitration resistance and good base retention.
- **Minimizes operating costs** — Low oil consumption from excellent piston deposit control with extended drain capability keeps equipment in service longer generating revenue.
- **Long Engine Life** — Formulated to protect from corrosive wear in engines burning harsh landfill and sour gas fuels. Protects against valve train wear and scuffing of highly loaded parts operating under boundary lubrication conditions. Level and type of ash producing additives controls valve recession and potential for pre-ignition.
- **Minimizes maintenance costs** — Exceptional oxidation resistance and dispersancy minimizes sludge formation, protects against filter plugging, abrasive polishing wear and oil thickening. Special formulation gives excellent corrosion control in engines burning high chlorofluorocarbon (CFC) and / or high sulfur containing fuels where high level of acidic condensate form. This exceptional corrosion control ensures maximum liner life even in intermittent operation.
- **Advanced catalyst protection** — Low phosphorus technology formulation promotes reliable catalyst performance and protection.

Product(s) manufactured in the USA.

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.

A **Chevron** company product

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GEO-100

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### FEATURES

HDAX 6500 LFG Gas Engine Oil is a premium quality high performance low ash dispersant/detergent type SAE 40 gas engine oil, specifically formulated for landfill gas, biogas, digester gas and sour gas applications. Combination of high performance premium base fluids and a robust inhibitor package provides exceptional protection and extended service protection for engines burning aggressive sour gases.

HDAX 6500 LFG Gas Engine Oil provides excellent corrosion resistance in landfill gas, biogas, digester gas and sour gas applications, even when intermittent operation results in the formation of significant levels of acidic condensate. At 0.55 m% sulfated ash, HDAX 6500 LFG Gas Engine Oil gives this performance without the higher levels of combustion chamber deposits compared to some other products used in these applications.

It also provides excellent valve recession control for four stroke engines where low ash oil is preferred.

HDAX 6500 LFG Gas Engine Oil provides excellent deposit control on pistons minimizing ring sticking; providing scuffing protection to the cylinder liners, minimizing oil consumption and lacquering. Excellent engine cleanliness promotes long component life.

### APPLICATIONS

HDAX 6500 LFG is recommended for:

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

HDAX® 6500 LFG is approved for:

- **Caterpillar Energy Solutions GmbH** for Model CG 132, CG 170 and CG 260 engines
- **Cummins QSV** gas engines burning landfill gas
- **GE Jenbacher** gas engine types 2, 3, 4 versions A & B, type 4 version D, and type 6 versions C & E in fuel classes B (biogas) and C (landfill gas)
- **MAN Truck and Bus** M3271-4 for special gas
- **MWM** Gas Engines
- **TEDOM** rule 61-0-0281.1 for landfill, biogas and sewage gas fuels

HDAX 6500 LFG meets the requirements of these engines burning landfill gas:

- **MTU** MTL 5074

HDAX 6500 LFG is suitable for use in the following engines burning landfill gas or biogas fuels:

- **Caterpillar**
- **Waukesha**

The total base number or TBN retention, excellent deposit control and minimum viscosity increase performance of HDAX 6500 LFG Gas Engine Oil make this premium oil especially suited for extended drain service in four stroke gas engines.

## TYPICAL TEST DATA

<b>SAE Grade</b>	<b>40</b>
<i>Product Number</i>	262326
<i>SDS Number</i>	34537
Viscosity Grade	SAE 40
Density at 15°C, kg/L	0.875
Viscosity, Kinematic mm <sup>2</sup> /s at 40°C	130
mm <sup>2</sup> /s at 100°C	14.7
Viscosity Index	114
Flash Point, °C(°F)	268(514)
Pour Point, °C(°F)	-27(-17)
Sulfated Ash, m %	0.55
Acid Number, ASTM D664, mg KOH/g	1.2
Base Number, ASTM D2896, mg KOH/g	4.5

Minor variations in product typical test data are to be expected in normal manufacturing.

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.