HDAX 9500 SAE 40

Premium performance extended drain gas engine oil

Product description

HDAX® 9500 SAE 40 is a premium performance dispersant/detergent-type extended drain gas engine oil, designed specifically for gas engines running on landfill gas, biogas and digester gas, and for sour gas applications. It is also suitable for use in some natural gas applications.

HDAX 9500 SAE 40 is formulated with premium base oils with very low levels of sulphur, nitrogen and aromatics. It contains ashless dispersants, oxidation inhibitors, metallic detergents and anti-wear agents designed to prevent oxidation, corrosion, deposits, wear and scuffing.

Customer benefits

- Oxidation/nitration resistance with base number retention provides extended drain, and compatible with very low oil feed rate engines
- Dispersant/detergent system with oxidation/nitration resistance helps minimise oil thickening, sludge formation and filter plugging
- Designed for optimum protection against corrosion caused by acidic condensate in intermittent operations in sour gas applications
- Offers piston deposit control, helping provide cylinder liner scuff and abrasive wear protection, and longer engine service life
- Formulated with optimised ash level for valve recession control and helps prevent potential pre-ignition
- Low phosphorus additive formulation allows it to be used with catalyst systems

Product highlights

- **Offers low oil consumption, extended drain and compatible with low oil feed rate operation**
- **Helps minimise thickening, sludge and filter plugging**
- **Designed for acidic condensate corrosion protection**
- **Wear protection promotes longer engine life**
- **Formulated for valve recession control**
- **Optimised for use in catalyst systems**

Selected specification standards include:

Caterpillar	Jenbacher
MAN	MWM
TEDOM	

Applications

- HDAX 9500 is designed for use in four-stroke engines running on landfill gas (including gas containing elevated levels of chlorofluorocarbons and/or siloxane), biogas, digester gas and sour gas. It is also suitable for use in some natural gas applications.
- The combination of good base number retention and oxidation/nitration resistance helps HDAX 9500 to deliver extended drain capability - even in applications where the oil feed rate is kept deliberately low, placing extra stresses on the lubricant. The dispersant/detergent system is formulated to help prevent sludge formation on cylinder liners, which could interfere with oil flow and lead to higher oil consumption.
- HDAX 9500's robust corrosion control offers improved cylinder liner life even in intermittent operation in sour gas applications, which may result in the formation of significant levels of acidic condensate.
- HDAX 9500 promotes dependable control of carbonaceous deposits on pistons, helping maintain correct piston ring operation and scuffing protection to cylinder liners.
- Optimised ash level helps provide protection against valve recession and the formation of ash deposits in the combustion chamber that could lead to pre-ignition.

HDAX 9500 is recommended for:

- Four-stroke engines fuelled by landfill gas containing elevated levels of chlorofluorocarbons (CFC's) and/or siloxane
- Sour gas applications where corrosive wear is a special concern

Approvals, performance and suitable for use

Approvals

- Caterpillar
  CG132, CG170 and CG260 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 and 3
  - Type 4 Versions A
  - Type 4 Versions B and D
  - Type 6 Versions C and E
- MAN Truck & Bus
  M 3271-5 [1]
- MWM (Caterpillar Energy Solutions)
  TCG2016, TCG2020 and TCG2032 engines
- TEDOM
  61-0-0281.1
  Fuel types G, P, L, B, S [2]

[1] MAN approval number TUC 1849/21. Gas engine oils meeting specification M3271-5 can be used universally for operation with natural gas and special gas, including when using catalytic converters for exhaust aftertreatment . Switching to a product with the M3271-5 specification is recommended by MAN.

[2] G = natural gas, P = propane-butane, L = landfill, B = biogas, S = sewage gas

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	0.873
Viscosity, Kinematic, 100 °C, mm²/s	ASTM D445	13.4
Pour Point, °C	ASTM D97	-33
Flash Point, COC, °C	ASTM D92	270
Total Base Number, mg KOH/g	ASTM D2896	5.4
Sulphated Ash, % wt	ASTM D874	0.60

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).

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