HDAX® 9500 SAE 40

Gas Engine Oil

Product description

HDAX® 9500 is a high-performance dispersant/detergent type gas engine oil designed for use in landfill gas, biogas, digester gas and sour gas applications.

HDAX 9500 is formulated with premium base oils which contain low levels of sulfur, nitrogen and aromatics. It uses a premium additive package containing ashless dispersants, oxidation inhibitors, metallic detergents and a metallic anti-wear agent.

HDAX 9500 helps provide corrosion resistance, helps reduce the formation of deposits and sludge, and helps protect against wear and scuffing.

Customer benefits

- **Supports extended oil service life**
  Effective oxidation/nitration resistance, together with base number retention, help support extended drain intervals, even in engines operating with low oil feed rates and in demanding landfill gas applications.

- **Contributes to lower operating costs**
  Supports long component life through effective piston deposit control, helping protect against scuffing of cylinder liners and abrasive wear.

- **Promotes reduced maintenance requirements**
  Promotes engine cleanliness. An optimized dispersant/detergent system, combined with oxidation and nitration resistance, helps reduce oil thickening and sludge formation, helping to protect against filter plugging and cylinder head deposits.

- **Helps support extended engine life**
  An effective anti-wear system helps protect against valve train wear and scuffing under boundary lubrication conditions. An optimized ash level helps control valve recession and reduce the risk of pre-ignition.

- **Designed for catalytic converter compatibility**
  Low phosphorus additive system designed for use in engines equipped with catalytic converter systems.

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Applications

- HDAX 9500 is designed for use in four-stroke engines operating on landfill gas (including gas containing elevated levels of chlorofluorocarbons and/or siloxane), biogas, digester gas and sour gas.
- A combination of high base number retention and oxidation and nitration resistance helps support extended drain intervals, even in applications where low oil feed rates place increased stress on the lubricant. The formulation helps reduce sludge formation on cylinder liners, supporting consistent oil flow and helping to control oil consumption.
- Effective corrosion control helps support liner durability, including in intermittent operation in sour gas applications where acidic condensate may form.
- The formulation helps control carbonaceous deposits on pistons, supporting piston ring function and helping to protect against scuffing of cylinder liners.
- An optimized ash level helps protect against valve recession, while helping reduce the formation of ash deposits in the combustion chamber that could increase the risk of pre-ignition.

Chevron recommends HDAX 9500 for:

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

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Product approvals, performance, and recommendations

HDAX® 9500	SAE 40
Jenbacher TA 1000-1109, Fuel Class B (biogas, sewage gas) and Class C (landfill gas): - Type 2 and 3 - Type 4 Version A - Type 4 Versions B and D - Type 6 Versions C and E	A
Everllence – (MAN Truck & Bus M 3271-5)	A
TEDOM (Fuel G, P, L, B, S)	A
Caterpillar CG 132, CG 170, CG260	A
MWM (Caterpillar) TCG2016, TCG2020, TCG2032	A

A: Approval / No objection letter by OEM

Service considerations

The sulfated ash level, alkalinity reserve and phosphorus content of gas engine oils should be selected to match the requirements of individual applications, taking into account engine design, operating conditions, fuel type and fuel quality. Particular consideration should be given to sulfur content and whether the engine is equipped with an exhaust catalyst for emission control.

Spark-ignition gas-fuelled engines may be sensitive to the sulfated ash level of the lubricant, as well as to the chemical composition of the ash. Excessive ash levels can contribute to issues such as spark plug fouling, exhaust valve guttering and the formation of combustion chamber deposits that may promote pre-ignition.

Conversely, some engines require a certain level of lubricant ash to help provide valve seat lubrication and help minimize valve seat recession.

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Typical Test Data

HDAX® 9500 SAE 40	TEST METHOD	RESULTS
SAE Grade		**40**
Product Code		**530052**
Density at 15 °C, kg/l	ASTM D4052	0.873
Kinematic viscosity, mm²/s @ 40°C mm²/s @ 100°C	 ASTM D445 ASTM D445	 116 13.4
Viscosity Index	ASTM D2270	113
Pour Point, °C	ASTM D97	-33
Flash Point, °C	ASTM D92	270
Total Base Number, mg KOH/g	ASTM D2896	5.4
Sulfated Ash, %wt	ASTM D874	0.60

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should 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.