HDAX 9200 Low Ash Gas Engine Oil SAE 40

Premium performance low-ash gas engine lubricant

Product description

HDAX® 9200 Low Ash Gas Engine Oil SAE 40 is a premium performance low-ash, dispersancy and detergency type gas engine lubricant, offering robust component protection even under heavy loads, and is designed for use in natural gas applications.

HDAX 9200 Low Ash Gas Engine Oil SAE 40 is formulated with a premium base oil, offering extremely low sulphur, nitrogen and aromatic content, in combination with ashless dispersant and oxidation inhibitors, with a metallic detergent and anti-wear additive system. HDAX 9200 Low Ash Gas Engine Oil SAE 40 offers reliable corrosion resistance and good combustion chamber deposit protection. Good piston deposit control helps minimise ring sticking. HDAX 9200 Low Ash Gas Engine Oil SAE 40 oxidation and nitration resistance performance is designed to minimise viscosity increases in service.

Customer benefits

• Oxidation and nitration resistance with base number retention offer extended drain in engines designed with a very low oil feed rate

• Combustion chamber and piston deposit control, increased liner protection, sludge, wear and corrosion protection contribute to reduced downtime.

• Helps minimise valve recession, combustion chamber deposits and ash build up, helping minimise the potential for pre-ignition

• Dispersant/detergent system and oxidation/nitration resistance helps minimise oil thickening and promotes engine cleanliness

Product highlights

• **Offers extended drain in very low oil feed rate engines**
• **Designed for sludge, wear and corrosion resistance**
• **Helps minimise valve recession**
• **Formulated for optimum engine cleanliness**
• **Designed to resist sludge and filter plugging**
• **Suitable for use with most catalyst systems**

Selected specification standards include:

Caterpillar	Jenbacher
MWM (Caterpillar Energy Solutions)	RMB/Energie
TEDOM	Waukesha

- Designed to resist sludge formation, filter plugging and cylinder liner honing pattern glazing, helping optimise oil flow and consumption

- Low phosphorus additive system suitable for use with most catalyst systems

Applications

- HDAX 9200 Low Ash Gas Engine Oil SAE 40 is designed for the new generation of high output, turbocharged, low emission 4-cycle engines requiring low ash lubricants and is recommended for use in natural gas applications.

- HDAX 9200 Low Ash Gas Engine Oil SAE 40 also meets the more demanding needs of high speed 4-cycle gas engines in cogeneration applications.

- HDAX 9200 Low Ash Gas Engine Oil SAE 40 is formulated to meet catalyst compatibility requirements.

- HDAX 9200 Low Ash Gas Engine Oil SAE 40 is suitable for use with fuels containing low levels of sulphur and chloro-fluoro-carbons (CFC). (In sour gas/high CFC applications, lubricants with higher base reserve may be required – for example, HDAX 9500).

Approvals, performance and suitable for use

Approvals

- Aggreko Jenbacher 420 B & C range gas engines (used by Aggreko) [3]

- Caterpillar CG132, CG170 and CG260 engines

- Jenbacher TA 1000-1109, Approved for the following engine types and versions (including engines fitted with an oxidation catalytic converter), extended oil change intervals:

  - Type 2 and 3
    Fuel Class A [1]

  - Type 4 (version A)
    Fuel Class A [1]

  - Type 4 (version B and D)
    Fuel Class A [1]

  - Type 4 (version C and E)
    Fuel Class A [1]

  - Type 6 (versions C and E)
    Fuel Class A [1]

  - Type 6 (versions F and J)
    Fuel Class A [1]

  - Special gas applications
    Fuel Class S [2]

- MWM (Caterpillar Energy Solutions): Gas Engines

- RMB/ENERGIE: Natural gas

- TEDOM 61-0-0281.1: Fuel types G (natural gas), P (propane/butane)

- Waukesha: Cogeneration applications

Suitable for use

- Caterpillar: Proof of Performance gained during extensive field trials in Caterpillar G3516 E+, G3516 TALE and G3500 H engines

[1] Natural gas, associated petroleum gas, mine gas, biogas (sulphur < 200 mg/10 kWh).

[2] Hydrogen fuel gases, thermoselect gases and steel mill gases as well as wood gas, syngas and pyrolysis gases with a high hydrogen content.

[3] 50 Hz operation to a maximum drain interval of 2000 hours.

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.

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Typical test data

Test	Test Methods	Results
Viscosity Grade		**SAE 40**
Typical Shelf Life: 60 months from date of filling indicated on the product label°		
Density at 15°C, kg/l	ASTM D4052	0.881
Kinematic viscosity at 100°C, mm²/s	ASTM D445	13.4
Pour Point, °C	ASTM D5950	-33
Flash Point, COC, °C	ASTM D92	278
Total Base Number, mg KOH/g	ASTM D2896	4.2
Sulphated Ash, %wt	ASTM D874	0.41

°Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing

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.

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 www.texacolubricants.com.

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