HDAX® 7200 Low Ash Gas Engine Oil SAE 40

High performance low ash stationary gas engine oil

Product description

Premium performance, long-drain, heavy-duty, low ash crankcase oil specifically designed to lubricate a wide range of four-stroke natural gas and dual-fuel engines where low ash oils are recommended.

Formulated with hydrocracked base oils and additive technology to provide exceptional oxidation and nitration resistance, extended oil and filter life, outstanding protection against ring and liner scuffing and wear, and excellent piston and ring belt deposit control to effectively protect against the formation and build-up of engine sludge.

Customer benefits

- **Exceptional Engine Performance**
  Optimized detergent-dispersant additive package helps minimize the formation of engine deposits.
- **Valve Recession Protection**
  The level and type of ash-producing additives in the oil provides minimum valve recession with low levels of combustion chamber deposits to minimize the potential for pre-ignition and spark plug fouling.
- **Low Wear**
  Offers outstanding protection against piston, ring and liner scuffing, scoring and wear.
- **Long Oil Life**
  Improved oxidation and nitration resistance provides maximum flexibility in maintenance scheduling.
- **Clean Pistons**
  Works to keep pistons clean, which helps prevent ring sticking and maintains clean, varnish-free piston skirts.

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Applications

- Lean-burn and stoichiometric four-cycle stationary spark ignition engines burning sweet natural gas or LPG, operating under high load, high temperature conditions.
- Four-cycle medium-speed stationary spark ignition engines operating on sweet natural gas or LPG.
- Four-cycle medium-speed stationary dual-fuel pilot injection engines operating on sweet natural gas or LPG.
- Formulated to meet non selective catalytic reduction (NSCR) catalyst compatibility requirements and is suited for installation requiring low phosphorus oil to help prevent exhaust catalyst poisoning.

Approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

HDAX® 7200	SAE 40
Waukesha - cogeneration applications	Approved
MTU Series 400 engines - naturally aspirated and turbocharged, running on natural gas and propane gas.	Approved
INNIO Jenbacher using fuel Class A for Type 2/3, Type 4 (version A, B & D), Type 6 (Version C & E)	Meets the requirements
Caterpillar - G3500 series and smaller engines (self-certified)	Meets the requirements
Caterpillar - G3600 and C280 series engines (self-certified)	Meets the requirements
Waukesha field test requirements for engines burning natural gas other than the 220GL series (self-certified).	Meets the requirements
MTU Series 4000 engines - L61, L62, L63, L64, running on natural gas	Suitable for use

Consult OEM representatives for independent verification, updates and recommendations.

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Service considerations

The sulfated ash, alkalinity reserve and phosphorus content of gas engine oils can be properly matched to the needs of individual applications, taking account of engine design, operating conditions, fuel type and quality, with particular reference to sulfur content and whether or not the engine is fitted with an exhaust catalyst for emission control purposes.

Spark ignition, gas-fuelled engines may be sensitive to the sulfated ash level of the lubricant and to the chemical nature of the ash. Excessive ash can lead to problems such as spark plug fouling, exhaust valve guttering and build-up of pre-ignition-inducing combustion chamber deposits. On the other hand, many engines require a certain amount of lubricant ash to ensure satisfactory valve seat lubrication and to minimize valve seat recession.

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Typical test data

HDAX® 7200	TEST METHODS	RESULTS
SAE Grade		**40**
Product Code		**530023**
Density, @ 15°C, kg/l	ASTM D4052	0.881
Base No., mg KOH/g	ASTM D2896	5.1
Sulfated Ash, m %	ASTM D874	0.51
Viscosity, mm^2/s @ 40°C mm^2/s @ 100°C	 ASTM D445 ASTM D445	 119 13.5
Viscosity Index	ASTM D2270	110
Pour Point, °C	ASTM D97	-30

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) 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 a MSDS for this product, visit the Product Information Center.

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