



HDAX[®] 7200 Low Ash

Gas Engine Oil

Product Data Sheet

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.

Applications

- Four-cycle high-speed stationary spark ignition engines operating on sweet natural gas or LPG
- 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

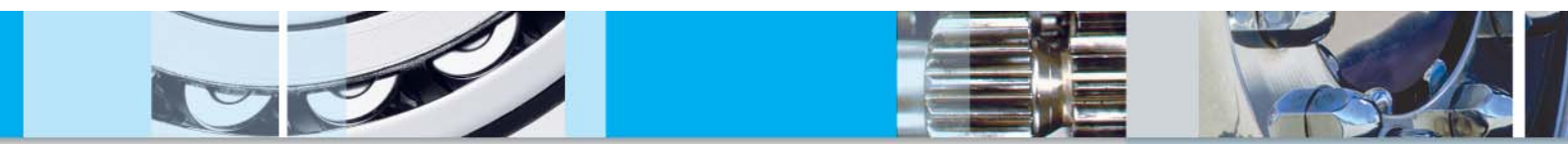
Product features:

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.

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Performance standards

- Caterpillar field test requirements for 3500 series and smaller engines (self-certified)
- Caterpillar field test requirements for 3600 and C280 series engines (self-certified)
- Waukesha approval for cogeneration applications
- Waukesha field test requirements for engines burning natural gas other than the 220GL series (self-certified)

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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continued

Product specifications

HDAX 7200 LOW ASH KEY PROPERTIES	RESULTS
SAE Grade	40
Product Code	530023
Acid Number, D664, mg KOH/g	1.2
Base No., D2896, mg KOH/g	5.1
Phosphorus, m %	0.03
Sulfated Ash, m %	0.51
Viscosity,	
mm ² /s @ 40°C	119
mm ² /s @ 100°C	13.5
Viscosity Index	110
Zinc, m %	0.03

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

Produced by Chevron Lubricants; Africa, Middle East and Pakistan.

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Health, safety, storage and environmental Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application and in accordance with the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS's are available upon request through your local sales office, or via the Internet. This product should not be used for purposes other than its intended use. When disposing of used product, take care to protect the environment and follow local legislation.

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