



HDAX[®] 5200 Low Ash Gas Engine Oil SAE 30, 40

High performance low ash gas engine lubricants

Product description

HDAX 5200 Low Ash Gas Engine Oils are a high performance low ash, bright stock free formulation with premium base oil technology. HDAX 5200 lubricants offer reliable oxidation and nitration resistance, which helps reduce the build-up of insolubles and promotes long oil and filter service life.

HDAX 5200 offers protection against ring and liner scuffing, wear and valve recession in four-stroke engines. It also promotes piston and ring belt deposit control to help protect against the formation and build-up of engine sludge.

Customer benefits

- Offers reduced maintenance downtime, lower maintenance costs and longer engine service life
- Promotes protection against piston, ring and liner scoring and scuffing, helping reduce wear and maintenance downtime
- Advanced additive technologies aid reduced valve recession, combustion chamber deposits, pre-ignition and sparkplug fouling
- API CD/CF performance aids piston cleanliness, varnish-free piston skirts and helps maintain resistance to ring-sticking
- Formulated to promote sludge minimisation and keep-clean performance in the crankcase, valve rocker cover and top deck areas
- Low phosphorus formulation assists compatibility with NSCR (non selective catalytic reduction) emissions reduction systems

Product highlights

- **Reduced maintenance downtime**
- **Promotes increased engine protection**
- **Aids reduced valve recession, deposits, pre-ignition and sparkplug fouling**
- **Assists wear protection and increased engine life**
- **Promotes keep-clean engine performance**
- **NSCR compatibility**

Selected specification standards include:

API CD/CF	Ajax
Caterpillar	Caterpillar Energy Solutions
Clark-Dresser	Delaval Enterprise
Deutz	Dresser-Rand
Fairbanks-Morse/MEP	GE Jenbacher
MAN Diesel & Turbo	Superior
Wärtsilä	Waukesha
Worthington	

Applications

- HDAX 5200 Low Ash Gas Engine Oils are recommended for four-stroke and selected two-stroke stationary engines fuelled by natural or synthetic gas.
- HDAX 5200 Low Ash Gas Engine Oils are formulated to meet NSCR catalyst compatibility requirements and are especially suited for installations requiring low phosphorus oil to prevent exhaust catalyst poisoning.
- HDAX 5200 Low Ash Gas Engine Oils are suitable for use with fuels containing low levels of sulphur and Chloro-Fluoro-Carbons (CFC). In sour gas/high CFC applications, an oil with higher base reserve may be required.
- HDAX 5200 Low Ash Gas Engine Oils are formulated to meet the performance requirements of the obsolete API Service Category CD/CF.

Approvals, performance and recommendations

Approvals

- Caterpillar – Caterpillar engines CG132, CG170 and CG 260 (SAE 40 only)
- Caterpillar Energy Solutions (former MWM) Technical Circular 0199-99-2105 group up to 0.6% sulphated ash (SAE 40 only)
- Deutz TR0199-99-01213/2 for 913, 914 and TCG2015 series engines (SAE 40 only)
- GE Jenbacher TA 1000-1109
SAE 40 grade approved for the following engine types and versions (including engines fitted with an oxidation catalytic converter):
 - Type 2 and 3
Fuel Class A ^[1]
 - Type 4 (versions A and B)
Fuel Class A ^[1]
 - Type 4 (from version C)
Fuel Class A ^[1], Class B ^[2] and Class C ^[3]
 - Type 6 (versions C and E)
Fuel Class A ^[1]
 - Type 6 (from version F)
Fuel Class A ^[1], Class B ^[2] and Class C ^[3]
- MAN Diesel & Turbo – Large Medium Speed Otto-gas and dual fuel operation (SAE 40 only)
- Wärtsilä Gas engines and dual fuel engines with natural gas as main fuel (SAE 40 only)
- Waukesha Cogeneration application (SAE 40 only)
- Waukesha SG 175/220 (formerly provided by Wärtsilä; SAE 40 only)

Performance

- API CD/CF (obsolete)
- Ajax Two-stroke
- Caterpillar 3500 and 3600 engines
- Clark-Dresser Two-stroke
- Delaval Enterprise
- Dresser-Rand Category I, II and III
- Fairbanks-Morse/MEP Two-stroke
- Superior
- Wärtsilä
- Waukesha
- Worthington Two-stroke and four-stroke

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

^[2] Biogas, sewage gas

^[3] Landfill gas

Typical test data			
Test	Test methods	Results	
Viscosity Grade		SAE 30	SAE 40
Shelf Life: 60 months from date of filling indicated on the product label.			
Density, 15°C, kg/l	ASTM D4052	0.877	0.879
Kinematic viscosity, 40°C, mm ² /s	ASTM D445	97.3	124
Kinematic viscosity, 100°C, mm ² /s	ASTM D445	11.4	13.5
Viscosity Index	ASTM D2270	104	104
Pour point, °C	ASTM D5950	-30	-33
Flash point COC, °C	ASTM D92	215	260
Total Base Number, mg KOH/g	ASTM D2896	4.2	4.2
Sulphated Ash, %wt	ASTM D874	0.5	0.5

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.

Disclaimer Chevron accepts no liability for any loss or damage suffered as a result of using this product for any application other than applications specifically stated in any Product Data Sheets.

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). MSDSs 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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