



# HDAX<sup>®</sup> 7200 Low Ash Gas Engine Oil SAE 40

## High performance low ash gas engine lubricant

### Product description

HDAX 7200 Low Ash Gas Engine Oil SAE 40 is a high performance low ash, bright stock free, dispersant/detergent type gas engine oil.

HDAX 7200 Low Ash Gas Engine Oil SAE 40 is formulated with premium base oil technology, offering a low sulphur, nitrogen and aromatic formulation. It uses a proprietary additive package containing ashless dispersants, oxidation inhibitors, metallic detergents and a metallic anti-wear agent.

HDAX 7200 Low Ash Gas Engine Oil SAE 40 offers reliable oxidation and nitration resistance, which helps reduce the build-up of insolubles and promotes long oil and filter life.

HDAX 7200 Low Ash Gas Engine Oil SAE 40 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

- Promotes protection against piston, ring, and liner scuffing, scoring and wear, helping reduce wear and maintenance downtime
- Advanced additive technologies aid reduced valve recession, combustion chamber deposits, pre-ignition and sparkplug fouling
- Flexibility in maintenance scheduling through improved oxidation and nitration resistance
- Aids piston cleanliness, varnish-free piston skirts and helps maintain resistance to ring sticking
- Formulated to promote sludge reduction and keep-clean performance in the crankcase, valve rocker cover and top deck areas

### 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:

Caterpillar	Deutz
Dresser-Rand	GE Jenbacher
MTU	MWM (Caterpillar Energy Solutions)
Rolls Royce	Superior
Wärtsillä	Waukesha
Worthington	

- Low phosphorous formulation assists compatibility with non selective catalytic reduction (NSCR) emission reduction systems

### Applications

- HDAX 7200 Low Ash Gas Engine Oil is recommended for lean-burn and stoichiometric four-stroke engines operating under high load, high temperature conditions. It is also recommended for high-speed four-stroke gas engines used in cogeneration applications and for engines fuelled by synthetic gas
- HDAX 7200 Low Ash Gas Engine Oil is formulated to meet NSCR catalyst compatibility requirements and is suitable for installations requiring low phosphorus oil to help prevent exhaust catalyst poisoning
- HDAX 7200 Low Ash Gas Engine Oil is suitable for use with fuels containing low levels of sulphur and chlorofluorocarbons (CFCs). In sour gas/high CFC applications, lubricants with a higher base reserve may be required

### Approvals, performance and recommendations

#### Approvals

- Deutz TR 0199-99-01213  
913/ 914/ 2015
- GE Jenbacher TA 1000-1109  
Fuel Class A <sup>[1]</sup> for the following engine types and versions:
  - Type 2 and 3
  - Type 4 Versions A and B
  - Type 6 Versions C and E
- MTU Series 400 gas engines running on natural gas or propane
- Waukesha – Cogeneration applications

#### Performance

- Caterpillar 3500 and 3600 engines
- Dresser-Rand Categories I, II, and III
- Rolls Royce
- Superior
- Wärtsillä
- Worthington

#### Recommendations

- Caterpillar CG132, CG170 and CG260 engines
- MTU Series 4000 models L61, L62, L63 & L64 running on natural gas
- MWM (Caterpillar Energy Solutions) Gas Engines

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

Typical test data		
Test	Test Methods	Results
<b>Viscosity Grade</b>		<b>SAE 40</b>
Density at 15 °C, kg/l	ASTM D4052	0.881
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D445	119
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	13.5
Viscosity Index	ASTM D445	110
Pour Point, °C	ASTM D5950	-30
Flash Point, COC, °C	ASTM D92	278
Total Base Number, mg KOH/g	ASTM D2896	5.1
Sulphated Ash, %wt	ASTM D874	0.51

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).

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