



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

## SAE 40

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### PRODUCT DESCRIPTION

HDAX<sup>®</sup> 7200 Low Ash Gas Engine Oil is a premium quality, bright stock free, low ash, dispersant/detergent type gas engine oil.

### CUSTOMER BENEFITS

HDAX 7200 Low Ash provides the following benefits:

- **Exceptional engine performance** — Optimized detergent/dispersant additive package helps to minimize the formation of engine deposits.
- **Low wear** — Offers outstanding protection against piston, ring, and liner scuffing, scoring, and wear.
- **Valve recession protection** — The levels and types of ash-producing additives in the oil provide minimum valve recession with low levels of combustion chamber deposits to minimize the potential for pre-ignition and spark plug fouling.
- **Long oil life** — Oxidation and nitration resistance provide maximum flexibility in maintenance scheduling.
- **Clean pistons** — Works to keep pistons clean, which helps prevent ring sticking and maintains clean, varnish-free piston skirts.
- **Clean crankcases and top decks** — Minimizes the formation of sludge in the crankcase, valve cover and top deck area.
- **Catalyst compatibility** — Formulated to be compatible with exhaust emission reduction systems.

### FEATURES

HDAX 7200 Low Ash Gas Engine Oil is formulated with premium Group II base stocks which contain extremely low sulfur, nitrogen, and aromatics. It uses a proprietary, premium additive package containing ashless dispersants, oxidation inhibitors, metallic detergents and a metallic anti-wear agents.



HDAX 7200 Low Ash Gas Engine Oil provides outstanding oxidation and nitration resistance, which minimize the buildup of insolubles and promote long oil and filter life.

HDAX 7200 Low Ash Gas Engine Oil gives outstanding protection against ring and liner scuffing and wear. It also minimizes valve recession in four-stroke engines and provides excellent piston and ring belt deposit control to effectively protect against the formation and buildup of engine sludge.

Product(s) manufactured in the USA and Colombia.

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.

A **Chevron** company product

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## 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.

HDAX 7200 Low Ash Gas Engine Oil is approved for:

- **GE Jenbacher** types 2, 3 & 4 versions A & B and 6 versions C & E in fuel class A (natural gas)
- **MTU** series 400 burning natural gas or propane gas and series 4000 (L32/L33/L63 & L64) burning natural gas
- **Waukesha** engines burning natural gas

Recommended for four-stroke gas-fueled engines manufactured by:

- **Caterpillar**
- **Dresser-Rand** (Categories I, II, and III)
- **GE Jenbacher**
- **MWM (DEUTZ)**
- **Rolls Royce**
- **Superior**
- **Wärtsilä**
- **Waukesha**

HDAX 7200 Low Ash Gas Engine Oil is formulated to meet catalyst compatibility requirements and is especially suited for installations requiring low phosphorus oil to prevent exhaust catalyst poisoning.

HDAX 7200 Low Ash Gas Engine Oil is suitable for use with fuels containing low levels of sulfur and Chloro-Fluoro-Carbons (CFC)\*.

## TYPICAL TEST DATA

<b>SAE Grade</b>	<b>40</b>
<i>Product Number</i>	232329
<i>SDS/MSDS Number</i> <i>USA</i>	28467
<i>Colombia</i>	41824
Density at 15°C, kg/L	0.881
Viscosity, Kinematic mm <sup>2</sup> /s at 40°C	119
mm <sup>2</sup> /s at 100°C	13.5
Viscosity Index	110
Flash Point, °C(°F)	250(482)
Pour Point, °C(°F)	-30(-22)
Sulfated Ash, mass% ASTM D874	0.51
Acid Number, mg KOH/g ASTM D664	1.2
Base Number, mg KOH/g ASTM D2896(4739)	5.1(4.4)
Phosphorus, ppm	280
Zinc, ppm	320

Minor variations in product typical test data are to be expected in normal manufacturing.

\* In sour gas/high CFC applications, lubricants such as HDAX 5300 Medium Ash Gas Engine Oil SAE 40 with higher base reserve may be required.

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