



# HDAX<sup>®</sup> 5100 ASHLESS GAS ENGINE OIL

## SAE 15W-40, 30, 40

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### PRODUCT DESCRIPTION

HDAX<sup>®</sup> 5100 Ashless Gas Engine Oils are advanced performance, premium quality, ashless, natural gas engine oils.

### CUSTOMER BENEFITS

HDAX 5100 Ashless Gas Engine Oils deliver value through:

- **Excellent low temperature performance** — HDAX 5100 Ashless Gas Engine Oil SAE 15W-40 is less viscous than SAE 30 and 40 oils at low temperatures, so it provides easy startup and improved cold temperature lubrication as compared to straight grades.
- **Promotes low maintenance cost and long engine life**
- **Minimizes ash deposits** — Protects against spark plug fouling from lubricating oil ash deposits. Minimizes ash deposits on valves, piston heads, combustion chamber surfaces, spark plugs, and port surfaces, minimizing the risk of pre-ignition and detonation.
- **Low ring and cylinder liner wear**
- **Exceptional engine cleanliness** — Minimizes engine deposits at both high and low operating temperatures through the use of an ashless dispersant.
- **Minimum viscosity increase in severe service** — Ashless oxidation inhibitor minimizes viscosity increase allowing for long oil drain intervals.
- **Proven performance** in older four-stroke naturally aspirated and turbocharged engines.

### FEATURES

HDAX 5100 Ashless Gas Engine Oils are formulated with Group II base stocks and a carefully balanced ashless package of dispersant, antioxidant, extreme pressure, and corrosion inhibitor additives.

HDAX 5100 Ashless Gas Engine Oils are formulated without bright stock for all two-stroke and selected four-stroke high speed, high output, turbocharged natural gas engines operating at full capacity.

HDAX 5100 Ashless Gas Engine Oils help provide exceptionally clean engine parts, even under severe operating conditions and extended overhaul intervals. They help protect against the formation of crankcase sludge and help to maintain clean exhaust ports in two-stroke engines.

### APPLICATIONS

HDAX 5100 Ashless Gas Engine Oils are recommended for all two-stroke and selected four-stroke stationary engines that require a completely ashless-type engine oil and which use natural or synthetic fuel gas.

They are the recommended lubricant for two-stroke gas engines with high compression ratios and turbochargers, and two-stroke engines known to be sensitive to combustion chamber and port deposits.

They are also recommended for engines with bearing corrosion problems.

Product(s) manufactured in the USA.

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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GEO-40

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## HDAX® 5100 Ashless Gas Engine Oil — Continued

HDAX® 5100 Ashless Gas Engine Oils are recommended for gas fueled engines manufactured by:

- **Ajax**
- **Caterpillar** (except 3400, 3500, 3600)
- **Clark-Dresser**
- **Cooper Bessemer** (two-stroke)
- **Dresser-Rand (Ingersoll-Rand)** Categories I and II
- **Fairbanks-Morse/MEP**
- **Waukesha** VR and Intermediate/Clinton
- **Worthington** (two-stroke)

SAE 15W-40 oils may not be appropriate for large medium speed gas engines. Consult Chevron at 1-800-LUBE-TEK or lubetek@chevron.com before using HDAX 5100 Ashless Gas Engine Oil SAE 15W-40 in these applications.

### TYPICAL TEST DATA

SAE Grade	15W-40	30	40
<i>Product Number</i>	232308	232373	232307
<i>SDS Number</i>	26850	26850	7050
Density at 15°C, kg/L	0.8746	0.8773	0.8790
Viscosity, Kinematic cSt at 40°C cSt at 100°C	118.3 15.6	104 11.4	134 13.5
Viscosity Index	137	95	95
Flash Point, °C(°F)	230(446)	252(486)	260(500)
Pour Point, °C(°F)	-33(-27)	-30(-22)	-27(-17)
Sulfated Ash, wt %	nil	nil	nil
Acid Number, ASTM D664	1.0	1.0	1.0
Base Number, ASTM D2896	3.0	3.1	3.1
Phosphorus, ppm	670	670	670
Zinc, ppm	<10	<10	<10

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

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