



# HDAX 5100<sup>®</sup> Ashless Gas Engine Oil SAE 40

## High performance ashless natural gas engine lubricant

### Product description

HDAX 5100 Ashless Gas Engine Oil SAE 40 is a high performance ashless natural gas engine lubricant. It is designed to promote reliable crankcase, intake and exhaust port keep-clean performance in two-stroke engines.

HDAX 5100 offers high performance protection to high speed, high output, turbocharged two-stroke and selected four-stroke natural gas engines operating at full capacity under severe conditions and over extended maintenance intervals.

A non-bright stock design, HDAX 5100 is a low sulphur, nitrogen and aromatic formulation in combination with ashless dispersancy and extreme pressure additives with ashless oxidation and corrosion inhibitors.

### Customer benefits

- Promotes extended maintenance periods, helps maximise system uptime and offers long, reliable engine service life
- Advanced ash deposit control helps minimise ash deposits on spark plugs, valves, piston heads, combustion chamber surfaces, and port surfaces, aiding a reduction in pre-ignition and detonation risk
- Dependable ring and cylinder wear resistance and durable anti-wear formulation contributes to reliable long-term engine service
- High performance ashless dispersant technology helps minimise engine deposits across a wide operating temperature range
- Dependable ashless oxidation inhibitor performance offers minimal viscosity increases and helps extend oil drain intervals

### Product highlights

- **Low maintenance long engine service life**
- **Advanced ash deposit control**
- **Ring and cylinder wear resistance**
- **High performance keep-clean protection**
- **Reliable severe service viscosity performance**

#### Selected specification standards include:

|                                      |                     |
|--------------------------------------|---------------------|
| Ajax                                 | Caterpillar         |
| Clark-Dresser                        | Cooper Bessemer     |
| Dresser-Rand                         | Fairbanks-Morse/MEP |
| Waukesha VR and Intermediate/Clinton | Worthington         |

- Robust formulation aids long service copper-lead corrosion protection even on bearings without lead or tin overlays
- Offers protection and performance in a range of older four-stroke naturally aspirated and turbocharged engines, helping reduce inventories

## Applications

- HDAX 5100 is recommended for many two-stroke and selected four-stroke stationary engines that require a completely ashless-type engine lubricant and which run on natural or synthetic gas
- HDAX 5100 is 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
- HDAX 5100 are also recommended for engines with bearing corrosion problems

## Approvals, performance and recommendations

### Recommendations

- 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)

| Typical test data                              |              |           |
|--|--------------|-----------|
| Test   | Test Methods | Results   |
| <b>Viscosity Grade</b>                         |              | <b>40</b> |
| Density, 15°C, kg/l                            | ASTM D4052   | 0.879     |
| Kinematic viscosity, 40°C, mm <sup>2</sup> /s  | ASTM D445    | 134       |
| Kinematic viscosity, 100°C, mm <sup>2</sup> /s | ASTM D445    | 13.5      |
| Viscosity Index                                | ASTM D445    | 95        |
| Pour Point, °C                                 | ASTM D5950   | -18       |
| Flash Point, COC, °C                           | ASTM D92     | 260       |
| Total Base Number, mg KOH/g                    | ASTM D2896   | 3.1       |
| Sulphated Ash, %wt                             | ASTM D874    | Nil       |

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.

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