

# LONG LIFE GAS 4005



COGENERATION GAS

## Lubricants

### Description

Long-life lubricant oil incorporating latest-generation additives and hydrogenated bases, enabling longer intervals between changes when compared with traditional mineral oils for gas cogeneration. Suitable for modern stationary gas engines fuelled by natural gas and requiring the use of an oil with an ash content no greater than 0.5%. Its balanced formula provides it with a much higher resistance than conventional lubricants to the oxidation and nitration found in these engines, which operate under harsh conditions. In applications that use biogas or other types of gas as fuel, the useful life of the lubricant will depend on the contaminant level of the gas.

### Properties

- Considerably prolongs the useful life of the lubricant, extending oil change periods. For some manufacturers it means that the oil in the crankcase does not need to be changed; simply filling up to maintain the oil level retains the lubricant's properties within recommended values.
- Reduces the number of maintenance stoppages, maximising engine utilisation time and minimising operating costs.
- Its bases provide it with excellent resistance to oxidation and nitration.
- Low ash content minimises deposit formation and enables compatibility with the modern exhaust gas after-treatment systems incorporated by manufacturers.
- Excellent detergent/dispersant properties keep the engine clean by controlling deposits, avoiding wear in pistons and sleeves.

### Quality levels

- JENBACHER 1000-1109 (approved)
- MWM DEUTZ (approved)
- ROLLS ROYCE BERGEN BV-G/ CR-G/ K-G1/ K-G2/K-G3 (approved)
- MAN Diesel & Turbo medium-speed engines (approved)
- CUMMINS (approved)
- MAN 3271-2
- WAUKESHA
- CATERPILLAR
- WÄRTSILÄ

### Technical specifications

|                     | UNIT              | METHOD      | VALUE    |
|---------------------|-------------------|-------------|----------|
| SAE Grade           |                   |             | 40       |
| Density at 15 °C    | g/cm <sup>3</sup> | ASTM D 4052 | 0.875    |
| Viscosity at 40 °C  | cSt               | ASTM D 445  | 118      |
| Viscosity at 100 °C | cSt               | ASTM D 445  | 13.2     |
| Viscosity index     |                   | ASTM D 2270 | 107      |
| Flash point, O/C    | °C                | ASTM D 92   | 225 min. |
| Pour point          | °C                | ASTM D 5950 | -12      |
| TBN                 | mg KOH/g          | ASTM D 2896 | 5.1      |
| Sulphated ashes     | % in weight       | ASTM D 874  | 0.5      |

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 7. April 2014.