

NATERIA MP 40



Gas engine oil



New generation low ash lubricant, specifically developed to extend oil drain interval, and to protect natural gas engines.

APPLICATIONS

Four-cycle natural gas engines in hard conditions

- Lubrication of engines requiring a **Low Ash** oil, in power generation plants, with or without cogeneration.
- Developed for the most severe conditions: fast engines, high temperatures, small oil sump capacity.

ADVANTAGES

Extended Oil drain intervals

- The use of **hydrocracked base oils** significantly increases oil drain interval, reducing the number of engine downtimes and the running cost.

Exceptional engine cleanliness

- Very low deposits-forming ensuring an excellent cleanliness of hot engine parts.
- The specific additives give important antiwear and anticorrosion properties, with a limited ash level, which guarantees the **compatibility with the exhaust gas treatment systems**.

Reinforced wear protection

- High anti-wear properties for an optimal protection of the most stressed parts.

TYPICAL CHARACTERISTICS	METHODES	UNITES	NATERIA MP 40
SAE Grade			40
Density at 15 °C	ISO 3675	kg/m ³	874
Kinematic viscosity at 40 °C	ISO 3104	mm ² /s	122.5
Kinematic viscosity at 100 °C	ISO 3104	mm ² /s	13.8
Viscosity index	ISO 2909		110
Flash point OC	ISO 2592	°C	284
Pour Point	ISO 3016	°C	-30
Sulfated ash	ISO 3987	% wt	0.48
TBN	ASTM D 2896	mgKOH/g	4.6

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
INDUSTRIE

30-10-2018 (supersedes 09-10-2018)

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SPECIFICATIONS

Engines manufacturers

NATERIA MP 40 performances are recognised by all major manufacturers who tested it successfully in real conditions.

The following homologations have been granted :

- **AGROGEN** – all biogas engines – BGA series
- **CATERPILLAR ENERGY SOLUTIONS** – 2105/14 – sulphated ash content up to 0.5 %wt, CG132, CG170, CG260 engines
- **DEUTZ** – Technical Bulletin 0199-99-01213/1
- **GE-JENBACHER** –
Engine types 2 et 3 : Gas type A and catalyst
Engine types 4 B : Gas type A and catalyst
Engine types 6 C & E : Gas type A and catalyst
- **MAN** - M3271-2 – Stationary Engines – Natural Gas
- **MAN** - M3271-4 – Stationary Engines – Special Gas
- **MAN Diesel & Turbo** – 4 stroke medium speed engines
- **MHIET** - GS 16 R2 - Natural gas
- **MTU 4000 series** – Natural Gas – L32/33 / L61/62/63/64
- **MTU 4000 series** – Biogas – L32 FB / L62 FB
- **MTU 400 series** – Natural Gas and Propane Gas
- **MWM** – 2105/14 – 2105/14 – sulphated ash content up to 0.5 %wt, 616, 620, 632 engines
- **ROLLS-ROYCE BERGEN** – K-G1, K-G2, K-G3, K-G4, BV-G
- **TEDOM** - Natural gas and propane
- **WAUKESHA** - 12 - 1880

NATERIA MP 40 also meets the technical requirements from **CATERPILLAR**, **CUMMINS** and **WÄRTSILÄ** among others.

TOTAL LUBRIFIANTS INDUSTRIE

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.