

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 Specialties USA, Inc.

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NATERIA

7-2016

This lubricant must be applied as recommended and used for the application for which it was designed. TOTAL Specialties USA, Inc. will have no responsibility for any injury to persons or property resulting from misuse or misapplication of the lubricant. A safety data sheet conforming to the OSHA Hazard Communication Standard 29 CFR Section 1910.1200 can be downloaded at www.totalspecialties.com. Copyright 2016 All rights reserved.



**TOTAL**

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
- **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

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

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