

NATERIA MH 30 - 40



Gas engine oil

Low ash (< 0,5 %) detergent mineral oils for modern spark ignited gas engines.

APPLICATIONS

Spark ignited natural gas engines

- Lubrication of modern spark ignited engines fed with natural gas, when the manufacturers require an ash content between 0.35 % and 0.5 %. These engines are generally used in cogeneration (CHP : combined heat and power) power plants, standard power plants, gas compression, etc...

SPECIFICATIONS

Engine manufacturer

- **NATERIA MH** are approved or meet the requirements of the following manufacturers :
 - CATERPILLAR (3300 to 3500 series)
 - CUMMINS (except B & C series)
 - DEUTZ-MWM « Group D » (non suitable for 232 and 816 series)
 - IVECO - AIFO
 - JENBACHER « 1000 – 1107 » standard for stoichiometric engines and catalytic converters)
 - MITSUBISHI
 - PERKINS (Shewsbury, Stafford)
 - WÄRTSILÄ (220 SG, 25/28 SG, 34SG)
 - WAUKESHA (VHP, AT).

ADVANTAGES

Engine protection

- **NATERIA MH** contains mineral base oils selected for their thermal stability, nitration and oxidation resistance.
- The specific additives give either important antiwear, anticorrosion properties with a limited ash level.

Catalytic converters compatibility

- This low ash content reduces the combustion chamber desposits risks and gives the compatibility with the most stringent exhaust gas treatment systems manufacturers specifications requirements.

TYPICAL CHARACTERISTICS	METHODS	UNITS	NATERIA MH	
			30	40
SAE Grade			30	40
Density at 15°C	ISO 3676	kg/m ³	0.890	0.890
Kinematic viscosity at 40 °C	ISO 3104	mm ² /s	106	142.2
Kinematic viscosity at 100 °C	ISO 3104	mm ² /s	11.8	14.8
Viscosity index	ISO 2909		100	105
Flash point OC	ISO 2592	°C	240	250
Pour point	ISO 3016	°C	- 15	- 12
Sulfated ash	ISO 3987	%	0.43	0.43
BN	ASTM D 2896	mgKOH/g	5.5	5.5

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités

10 september 2003 (Supersedes 6 may 2003)

NATERIA MH 30-40

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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.

