

NATERIA MWX 40



Low Ash High TBN premium mineral gas engine oil for use in modern steel piston engines operating under extreme temperatures.



APPLICATIONS

NATERIA MWX 40 is a next generation low ash gas engine oil, designed to :

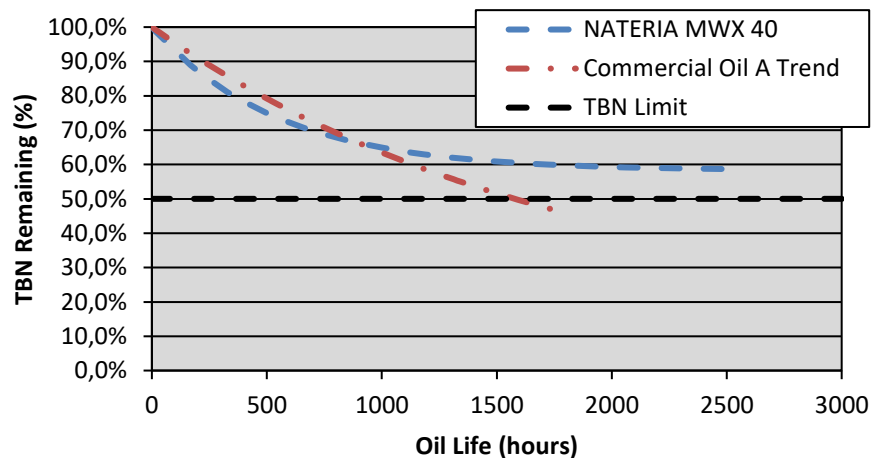
- Extend oil drain interval
- Optimize valve recession and wear control

NATERIA MWX 40 is engineered to meet the requirements of latest generation steel piston engines operating with higher temperatures, reduced oil specific consumption and higher Brake Mean Effective Pressure.

NATERIA MWX 40 is particularly suitable for high output engines in a 10 to 20 MW range

LONGER OIL LIFE

Unique technology combining exceptional alkalinity reserve (TBN) and low ash properties. Depending on operating conditions, **NATERIA MWX 40** has proven to deliver **longer drain intervals** against older generation premium Gp. II gas engine oils.






CUSTOMER BENEFITS

- ✓ Up to 50% longer oil drain intervals
- ✓ Outstanding Engine Protection
- ✓ Reduced downtime

SUPERIOR ENGINE PROTECTION

NATERIA MWX 40 excels in OEM bench testing.

PANEL COKER TEST (PCT*)	Premium Competitor 1	Premium Competitor 2	NATERIA MWX 40
NATERIA MWX 40 demonstrates exceptional thermal stability without the formation of varnish.			
	6,5/10	7,3/10	8,63/10

* PCT – Jenbacher method – 24h at 288°C
Rating on oil deposit control performance.

TECHNICAL DATA – NATERIA MWX 40

CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES
SAE Grade	-	-	40
Density at 15°C	ISO 3675	kg/m3	883.3
Kinematic viscosity at 40°C	ISO 3104	mm ² /s	118.3
Kinematic viscosity at 100°C	ISO 3104	mm ² /s	13.5
Viscosity index	ISO 2909	-	111
Flash point COC	ISO 2592	°C	266
Sulfated ash	ISO 3987	% wt	0.54
TBN	ASTM D 2896	mg KOH/g	7.3
TAN	ASTM D 664	mg KOH/g	1.4
Distillation loss at 250°C – Noack Test	CEC L-40-A-93	%	4
Foaming test - Seq I - Seq II - Seq III	ISO 624	mL/mL	0/0 0/0 0/0
Air Release at 150°C	ASTM D 3427	Min	22

APPROVALS

- ✓ Jenbacher Type 2 & 3
- ✓ Jenbacher Type 4A, B, C, D
- ✓ Jenbacher Type 6C, E, F, J
- ✓ Waukesha VGF, VHP, 275GL/GL+, APG (non co-gen application)
- ✓ Wärtsilä 34 / 50 SG (in progress)
- ✓ Caterpillar 3500 Series
*Jenbacher Series approval is for Gas Type A

SUPERIOR ENGINE CLEANLINESS

The piston rings and grooves showed no coke build-up nor discoloration while the cylinder head covers were clean and free of any deposits.

These outstanding cleanliness results prove the effectiveness of **NATERIA MWX 40** latest generation of additive technology

Piston



Piston Ring Grooves

Cylinder Head



OIL MONITORING

Take out the best of your engines by implementing ANAC GAS oil monitoring program.



SHELF LIFE

Shelf life is 3 years for unopened drums.

STORAGE

Store the product away from humidity at temperatures not exceeding 35°C.

Total Lubrificants
INDUSTRY & SPECIALTIES
13-10-2020
NATERIA MWX 40

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. is obtainable via your commercial adviser sdstotalms.total.com.



TOTAL

Committed to Better Energy