

# Nateria

Gas engine oil for  
extended service life

Unleashing the potential  
of your gas engine

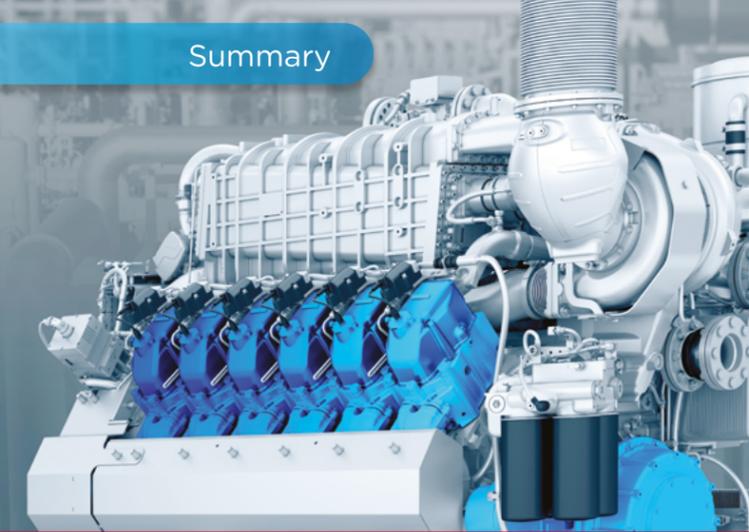


**TotalEnergies**

# Summary

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- Optimum performance and productivity with Nateria
- Monitoring performance
- OEM specifications & approvals
- Five good reasons for choosing TotalEnergies Lubrificants



### Responsive performance, Long-lasting protection

We have carefully selected our base oils and additives to meet leading **engine manufacturers' requirements** and keep your engine reliable even under cyclic peak loading conditions.

Special emphasis is put on the low-deposit tendency of our formulations to ensure **superior engine cleanliness**.

Nateria gas engine oils and Supra coolants also provide enhanced wear and corrosion resistance **to better protect your engine**.

### Reduced costs, Increased productivity

Our latest engine oil and coolant technologies are designed to deliver **extended service life**, even with the most aggressive gas fuels (H<sub>2</sub>S, moisture, contaminants).

Combined with LubAnac oil and coolant monitoring services, we help you get a comprehensive diagnosis of your equipment and determine **the optimal drain interval**.

Benefit from our know-how to maximize the availability of your engine and drive down your operating costs.

### Global partner, Local support

TotalEnergies Lubrificants is present in more than 160 countries. With **dedicated supply chains in most countries**, you can count on TotalEnergies Lubrificants affiliates to deliver on time in most remote locations.

We provide **technical support** such as oil diagnosis guidance and management of waste oil. You can rely on our field engineers to advise you on the best lubricant choice for your engine.

From gas field production through to cogeneration plants, TotalEnergies Lubrificants is your **local partner** for gas engine lubrication and care.

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We provide **a complete lubrication solution** for your stationary gas engine.

A combined offer of premium gas engine oils and coolants to **maximize engine life** and efficiency

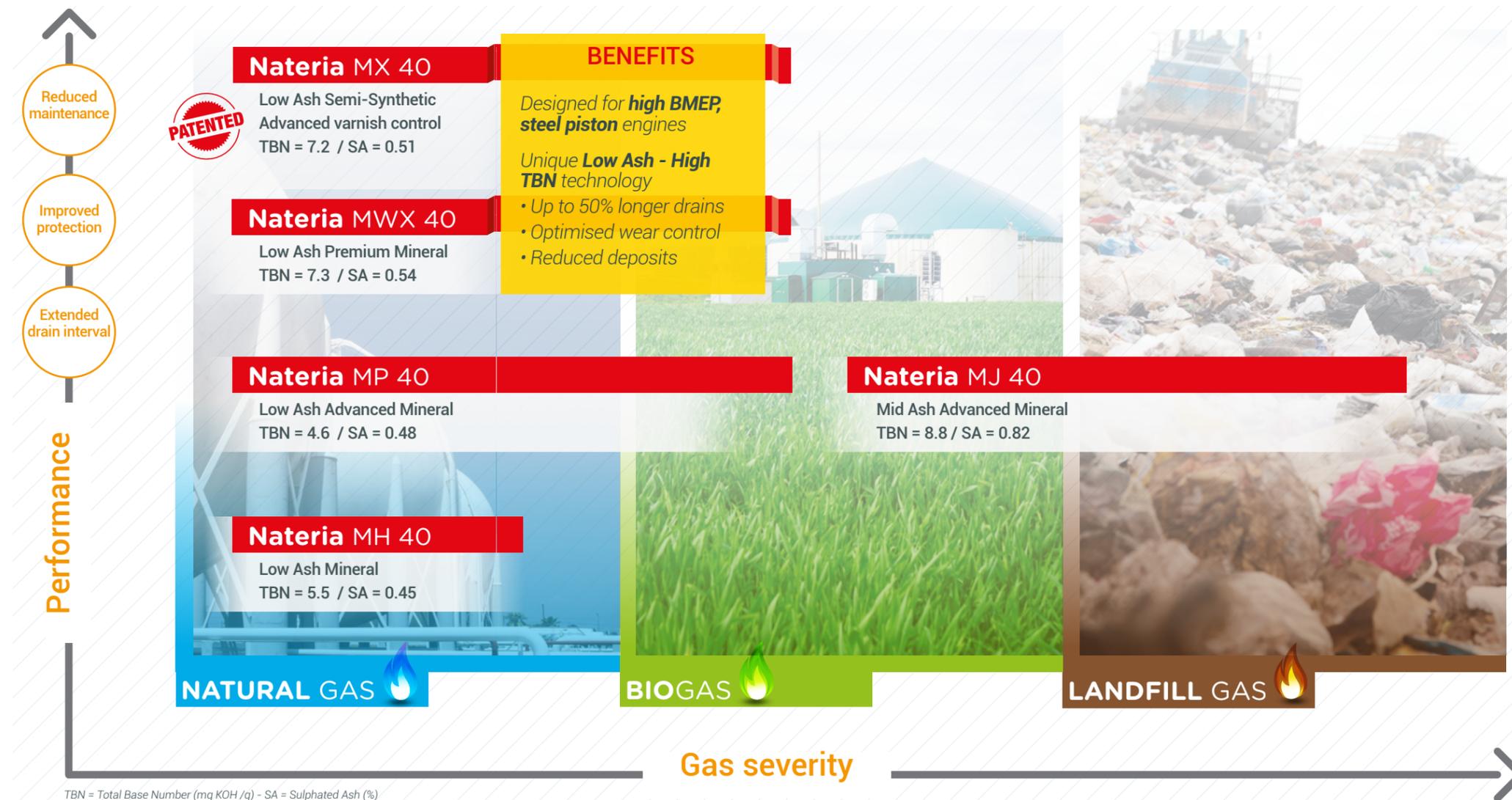
Dedicated services to monitoring the condition of your engine and to **optimizing your drain interval**



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Put your trust in TotalEnergies Lubrificants teams to keep your engine up and running and **boost your earnings!**

## Nateria Enhancing performance and productivity



TBN = Total Base Number (mg KOH /g) - SA = Sulphated Ash (%)





## Supra: bringing protection in all conditions

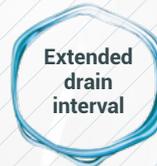
Supra long-life organic coolants stand among the most recognized coolant brands worldwide for their advanced performance and exceptional service life.

➤ **LubAnac**  
coolelf supra  
(ready-mixed coolant)

➤ **LubAnac**  
glacelf supra  
(antifreeze)



- Optimum heat transfer
- Low-deposit forming tendency



- Enhanced formulation against freezing and boiling
- Long-lasting corrosion inhibitors



- Superior protection of the cylinders at high temperatures
- Corrosion and cavitation prevention

## LubAnac making the difference

TotalEnergies Lubrificants' worldwide oil monitoring program, **LubAnac**, has been helping engine operators for years in **reducing their maintenance costs** while **increasing equipment reliability**.

### LubAnac gas

Monitoring of gas engine oils condition and engine wear. Recommended for engines operating on natural gas, landfill gas, sewage gas or biogas.

### LubAnac coolant

Monitoring of in-service coolants and cooling systems. Recommended for all engine types.



Over 20 years' experience in gas engine oil and coolant monitoring



Fresh sample analysed with respect to engine historical data



Diagnosis based on engine manufacturers' condemning limits



Comments on diagnosis and corrective actions provided by our field engineers



Reports available in 19 languages



Secured extranet to access your data (compatible with smartphones and tablets)

# OEM APPROVALS

SPECIFICATION		Nateria MH	Nateria MP	Nateria MJ	Nateria MWX	Nateria MX	COOLANT
▶ JENBACHER	Type 2 & 3	✓ (gas A, B, C, CAT)	✓ (gas A, CAT)	✓ (gas B, C)	✓ (gas A)	✓ (gas A)	<b>CoolElf</b> Supra <b>CoolElf</b> CHP Supra
	Type 4 A, B	✓ (gas A, B, C, CAT)	✓ (gas A, CAT)		✓ (gas A)	✓ (gas A)	
	Type 4 C, E				✓ (gas A)	✓ (gas A)	
	Type 6 C, E	✓ (gas A, B, C, CAT)	✓ (gas A, CAT)		✓ (gas A)	✓ (gas A)	
	Type 6 F, J				✓ (gas A)	✓ (gas A)	
	Type 6 H, K					✓ (gas A)	
▶ WAUKESHA	VGF, VHP, 275GL/ GL+, APG series	✓	✓		✓	✓	
	Cogeneration		✓				
▶ CATERPILLAR ENERGY SOLUTIONS	CAT CG132/170/260	✓	✓	✓		✓	<b>CoolElf</b> Supra <b>CoolElf</b> MDX
	CG132B/170B					✓	
	3300, 3400, 3500, 3600 series				✓	✓	
▶ MWM	TCG 2016/2020/2032	✓	✓	✓		✓	<b>CoolElf</b> Supra <b>CoolElf</b> MDX
	TCG 3016/3020					✓	
▶ WÄRTSILÄ	34SG, 50SG				In progress	✓	<b>WT</b> Supra
▶ MTU	4000 series L32/33	✓	✓				<b>CoolElf</b> Supra <b>CoolElf</b> MDX
	4000 series L61/62/63	✓	✓				
	4000 series L64		✓				
	4000 series L32FB						
	4000 series L62FB			✓			
	400BR series	✓	✓	✓			
▶ ROLLS-ROYCE BERGEN	K-G1, -G2 and -G3 C26:33 B35:40		✓				
	B36:45				In progress	In progress	
▶ MAN ENERGY SOLUTIONS	35/44, 51/60		✓ (SAE 40, 50)				<b>CoolElf</b> Auto Supra
▶ MAN TRUCK & BUS	M3271-2	✓	✓				<b>CoolElf</b> MDX
	M3271-4			✓			
▶ CUMMINS	QSK60, QSV91				In progress		
	HSK78					In progress	
▶ DEUTZ	0199-99-01213/1 (all engines)	✓	✓				<b>CoolElf</b> Supra
▶ TEDOM	Cento		✓	✓		In progress	<b>CoolElf</b> Supra
▶ KHI KAWASAKI	KG series					In progress	
▶ MHIET	GS-R series		✓			In progress	



### A major player

With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

### Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

### References & OEMs

TotalEnergies Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.

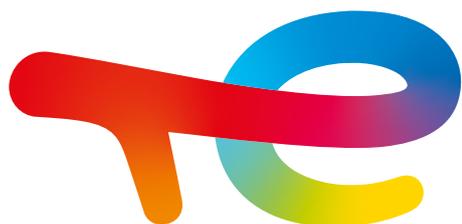


### Innovation & Research

TotalEnergies Lubrificants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

### Quality and environment

TotalEnergies Lubrificants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



# TotalEnergies



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Safety Data Sheets are available at [ms-sds.totalenergies.com](http://ms-sds.totalenergies.com)



TotalEnergies Industry Solutions