



OEM APPROVALS

| OEM SPECIFICATION | NATERIA MP 40 | NATERIA MJ 40 | NATERIA MX 40 | COOLANT | |
|--------------------------------|---|-------------------|-------------------|-----------------------------|--|
| ▶ JENBACHER | Type 2 & 3 (gas) | ✓ (gas A, CAT) | ✓ (gas B, C) | In progress (gas A, CAT) | |
| | Type 4 A & B (gas) Type 6 C & E (gas) | ✓ (gas A, CAT) | | In progress (gas A, CAT) | ✓ Coolelf SUPRA ✓ Coolelf CHP SUPRA |
| | Type 4 C & E (gas) Type 6 F, G, H (gas) | | | In progress (gas A, CAT) | |
| ▶ CATERPILLAR ENERGY SOLUTIONS | Low Ash 0199-99-12105 (CAT) 0199-99-2105 (MWM) | ✓ | | In progress | ✓ Coolelf SUPRA ✓ Coolelf MDX |
| | Medium Ash 0199-99-12105 (CAT) 0199-99-2105 (MWM) | | ✓ | | |
| ▶ WAUKESHA | Cogeneration | ✓ | | In progress | |
| ▶ CUMMINS | Natural gas | | | In progress | |
| ▶ WÄRTSILÄ | W34/50SG & DF | | | In progress | ✓ WT SUPRA |
| ▶ MTU | 400BR Series | ✓ (All gases) | ✓ (Sour gases) | | ✓ Coolelf SUPRA ✓ Coolelf MDX |
| | 4000 Series | ✓ (All gases) | ✓ (Sour gases) | | |
| ▶ ROLLS-ROYCE | K-G1, -G2 and -G3 K-G4 BV-G | ✓ | | | ✓ WT SUPRA |
| ▶ MAN TRUCK & BUS AG | Natural gas M3271-2 | ✓ | | | ✓ Coolelf MDX |
| | Special gas M3271-4 | ✓ | ✓ | | |
| ▶ DEUTZ | 0199-99-01213/1 (all engines) | ✓ | | | ✓ Coolelf SUPRA |
| ▶ TEDOM | Natural gas | ✓ | | | ✓ Coolelf SUPRA |
| | Biogas | | ✓ | | |
| ▶ KHI | Natural gas | | | In progress | |
| ▶ MHJET | Natural gas | ✓ | | In progress | |

A major player

With our production, supply chain and commercial presence in more than 150 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

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

5 good reasons for choosing TOTAL

Innovation & Research

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

Quality and environment

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

Safety Data Sheets are available at quickfds.com
lubricants.total.com

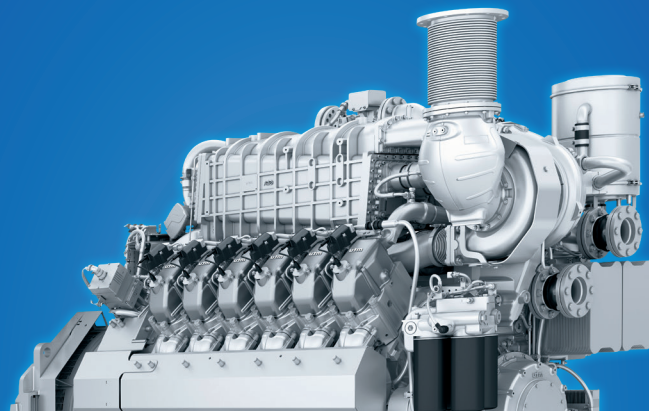
GAS ENGINES Unlocking value through our solutions



11/2018 - TOTAL Lubrificants SA 552 006 454 RCS Nanterre - Photos: 123RF, Erdgas Gasgeneseit, Design: GOLDEN design

Committed to Better Energy

Committed to Better Energy



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 (H₂S, moisture, contaminants).

Combined with ANAC 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

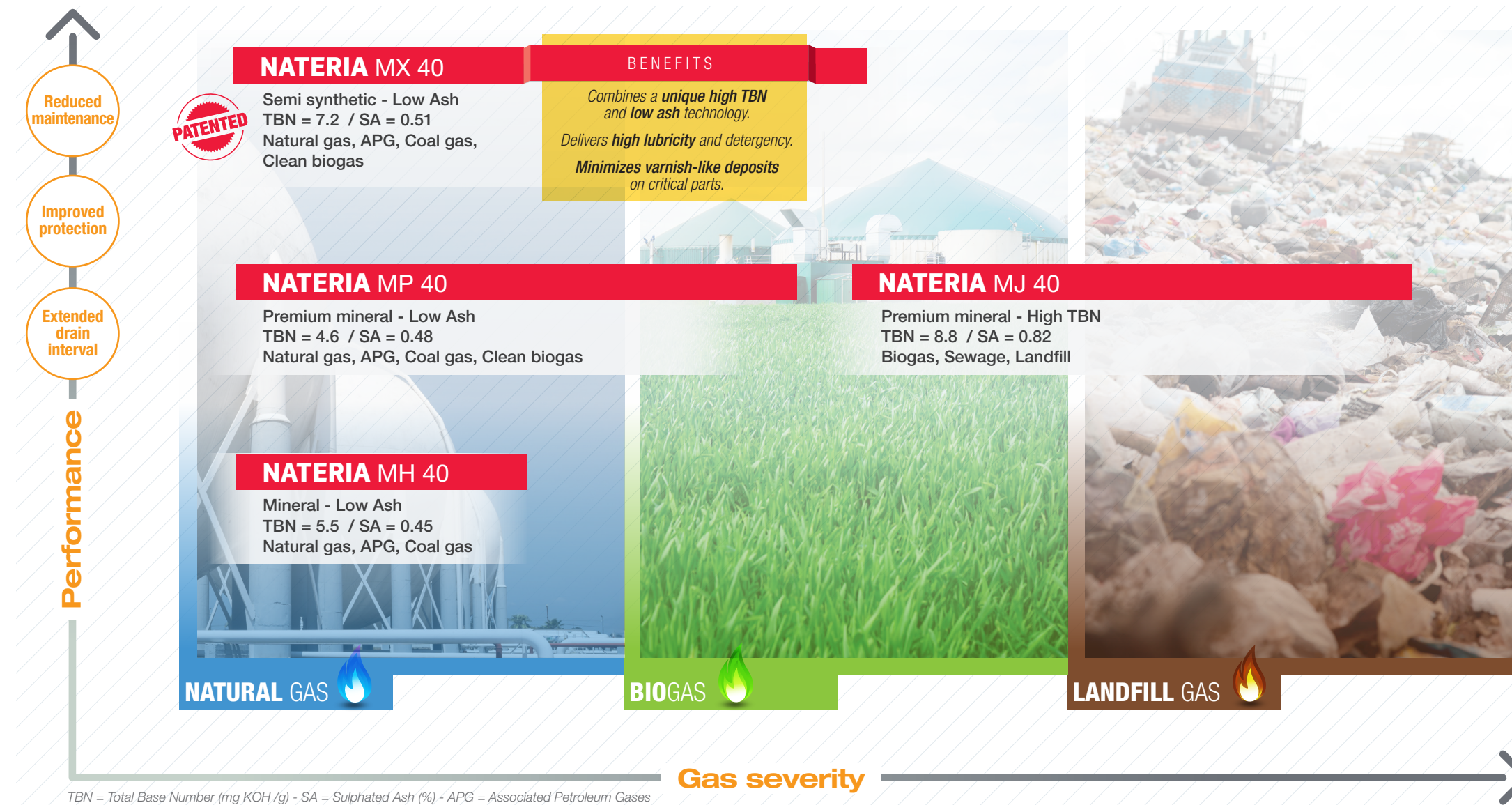
TOTAL is present in more than 130 countries. With **dedicated supply chains in most countries**, you can count on TOTAL affiliates to deliver on time in most remote locations.

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.



NATERIA

Enhancing performance and productivity



From gas field production through to cogeneration plants, TOTAL is your **proximity partner** for gas engine lubrication and care.

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**



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

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**.

COOLELF SUPRA
(ready-mixed coolant)

GLACELF SUPRA
(antifreeze)

Improved engine cooling

- Optimum heat transfer
- Low-deposit-forming tendency

Extended drain interval

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

Increased equipment durability

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

ANAC

Making the difference

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



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



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

