



**OILS**

HYDRAULIC OILS

**AZOLLA RANGE**  
Mineral fluids with good oxidation stability ensuring **anticorrosion and anti-wear protection** of the equipment used in hydraulic systems under various operation conditions.

GEAR OILS

**CARTER RANGE**  
Oils designed for the lubrication of gears operating under various conditions. It offers **longer drain intervals**, superior protection of equipment and reinforced **resistance against corrosion and wear**.



**GREASES**

LITHIUM GREASES

**MULTIS RANGE**  
High performing multipurpose grease based on Lithium/Calcium thickener for automotive and industrial applications, allowing **longer service-life of equipment and ease maintenance operations** while rationalizing stocks.

CALCIUM SULFONATE COMPLEX GREASES

**CERAN RANGE**  
High technology grease suitable for heavy loaded application over a wide range of temperature. Based on Calcium Sulfonate Complex thickener, it allows outstanding **resistance to water, wear, load and mechanical stability**.



**ANAC INDUS, customize the monitoring of your gearbox**

Full range of lube oil analysis, to allow you to anticipate and diagnose anomalies in the equipment. Thanks to ANAC INDUS, you:

- € **Reduce your operating costs.**
- 7 **Anticipate and plan** maintenance operations to perform them at the **best time**.
- 🕒 **Optimize** drain intervals and **extend the lifetime** of your equipment.
- ⚙️ **Improve the reliability and performance** of your equipment.



**Optimize your oil change strategy**

Built on the expertise of our engineers, TIG 6 offers you to:

- 🕒 **Increase efficiency** and savings of your maintenance management.
- 📊 **Monitor lubricant parameters and analyses** with a single tool.
- 📄 **Assert your quality and safety management** through management of lubricant documentation and critical points.



**Total Lubrificants, here for you!**

Our application engineers are ready to assist anytime and help you put products into use. Total Lubrificants will also put you in contact with independent and innovative partners.

**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.



**Quality and environment**

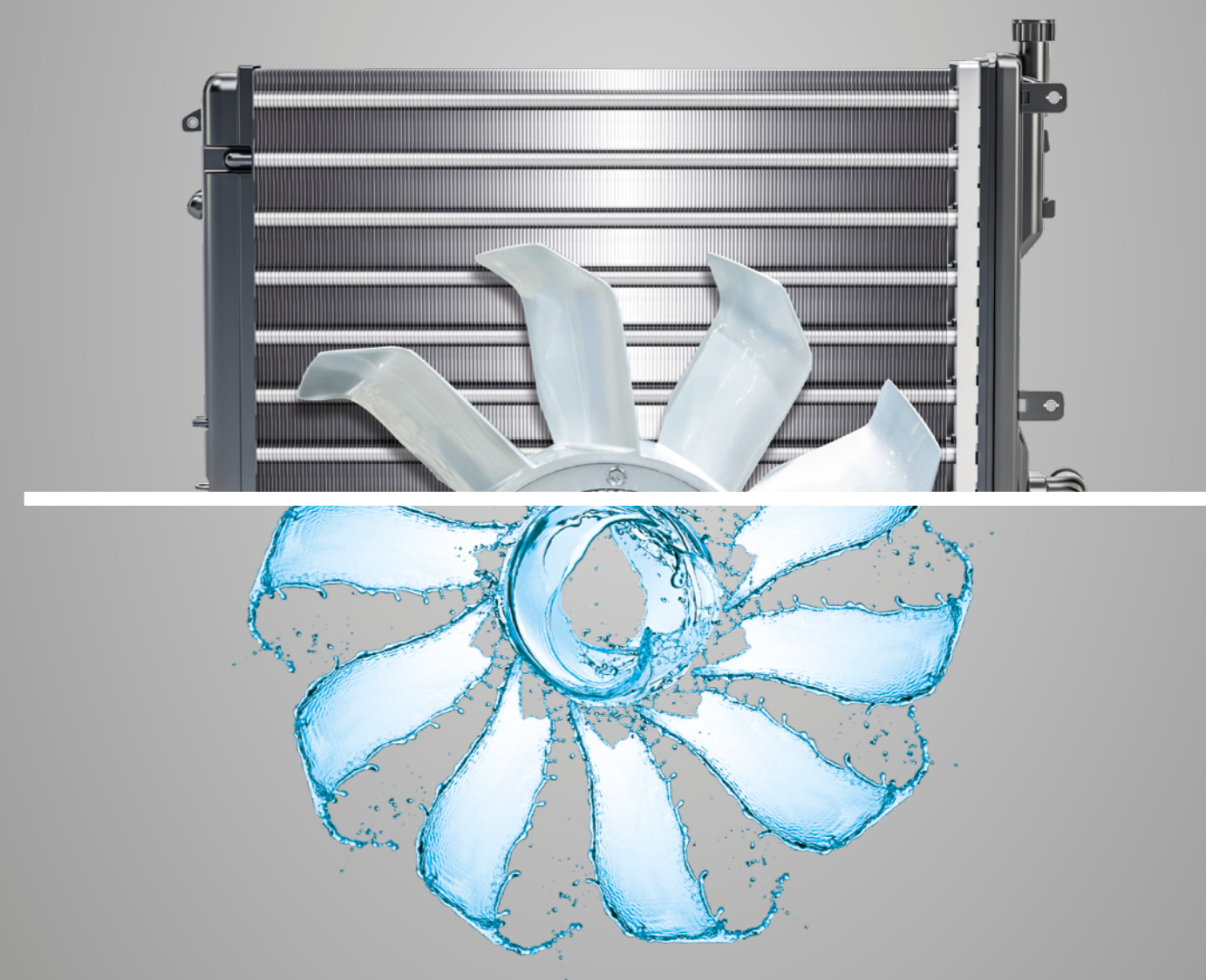
Total Lubrificants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.

**Innovation & Research**

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



**Thermal systems for automotive manufacturing**



11-2019 - TOTAL Lubrificants SA 552 006 454 RCS Nanterre - Photos: 123RF - AdobeStock - Design: GOLDEN design

Safety Data Sheets are available at [quickfds.com](http://quickfds.com)  
[lubricants.total.com](http://lubricants.total.com)



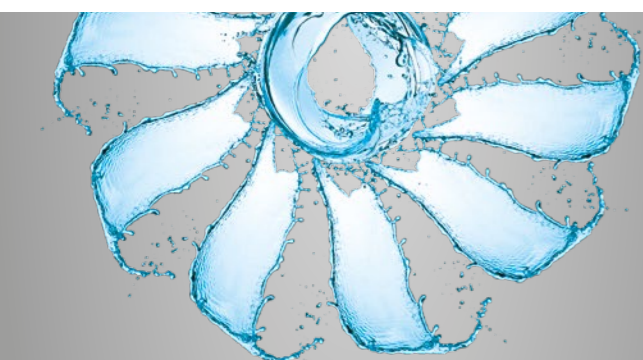


## Your challenges

- Maximum level of **productivity** with little down time.
- Reduce failure risks to maximize **quality** of output.
- Maximize **lifetime of equipment**.
- Reduce **Total Cost of Ownership (TCO)**.

## Our solutions

- Outstanding quality products allowing longer **drain intervals**.
- High performance lubrication solutions maximizing the **lifetime of your equipment**.
- **OEMs approved** products.
- **Last technology** lubricants enabling for considerable savings.



## THERMAL SYSTEMS MANUFACTURING

For more than 20 years, Total Lubrificants has been supporting thermal systems manufacturers, developing innovative and clean solutions.

**Reliability, performance and customer proximity is our DNA.**



THEY TRUST US



### COMPRESSOR



**High performance lubricants for compressor manufacturing & lubricating.**

#### PLANETELF PAG K

High performance synthetic lubricant designed for vehicle air conditioning systems using HFO-1234yf and HFC-134a refrigerants.

**VALONA MS**  
Chlorine-free neat cutting oil.

**VALONA GR**  
Neat grinding oil.

**SPIRIT**  
Water based fluid for general machining.

**FOLIA B**  
Biosourced water based fluid for general machining.

In service fluid



### COOLING FLUIDS



**Premium quality coolants based on the latest organic technology.**

#### COOLELF & GLACELF RANGES

- Excellent heat transfer for the engine cooling.
- Reinforced freezing and boiling protection.
- Very high protection of the cylinders at high temperature.
- Excellent protection of the engine materials against corrosion and cavitation.
- Exceptional service-life of the coolant.

### HVAC MODULE



**High quality hydraulic oils for plastic injection.**

#### EQUIVIS HE

High-efficiency hydraulic lubricant that meets the demand needs for energy efficiency and durability. Extension of drain intervals due to an excellent thermal stability and resistance to oxidation.

#### AZOLLA ZS

Reinforced protection of equipment. Good thermal stability and oxidation resistance. Considerable service life for fluids, preventing the build-up deposits.

#### AZOLLA ECO2

Regenerated oil complying with ISO HM 46 standard contributing to reduce the environmental footprint of lubricants.

#### LUBRILOG PE 1657

Silicone-free grease for HVAC Flaps and mechanism.

### HEAT EXCHANGER



**Specific stamping oil range for mechanical and brazed heat exchanger.**

#### MARTOL LVG 25 AQ

VOC free stamping oil, thermally degreasable.

#### MARTOL EV 10 CF

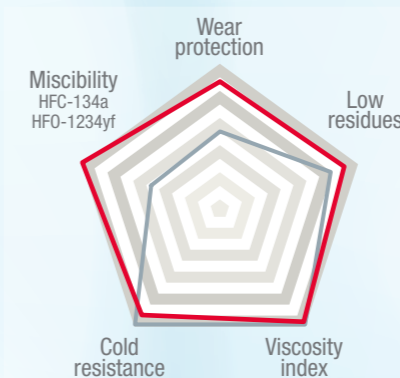
Fast evaporating vanishing oil for easy stamping operation.

### AIR CONDITIONING

#### PLANETELF PAG K



High performance synthetic lubricant designed for vehicle air conditioning systems.



**PLANETELF PAG K** is a fully synthetic range which provides superior protection to the compressors and reduces wear. **PLANETELF PAG K** range brings ultimate lubricity to moving parts.

- **PLANETELF PAG K 30**
- **PLANETELF PAG K 40**
- **PLANETELF PAG K 100**



#### BENEFITS

- Miscible with refrigerants HFO-1234yf and R-134a.
- Compatible with internal compressor materials made of elastomers
- Strong protection against wear
- Very stable against oxidation
- Good thermal stability

Compliant with decreased Ozone-depletion Potential (ODP) and Global Warming Potential (GWP) regulations.

### CUTTING PRODUCT

#### FOLIA B 7000



**FOLIA B 7000** is a biosourced solution free of mineral oils and emulsifiers, with high cooling and lubricating properties.



Using advanced technologies, we bring to markets the first and only metalworking fluid, that replaces standard oils with biosourced polymers, providing the best performance for the operators and their environment:

- Longer tool lifetime and fluid timespan
- Less consumption
- Increased productivity
- Less hazardous components



#### BENEFITS

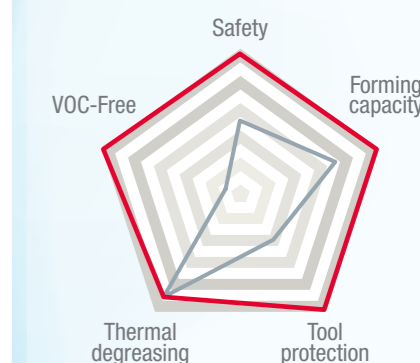
- Longer bath lifetime
- Extended tool and fluid life
- Productivity Increase
- No more foaming issues
- Cleaner Machines & Workshops
- Less fluid drag out (dryer chips)
- Reduced production costs (TCO)

### STAMPING PRODUCT

#### MARTOL LVG 25 AQ



The **MARTOL** range is designed for stamping operations on ferrous and non-ferrous metals.



In order to protect the health of users and protect the environment, the formulas are chlorine free. It guarantees a very high level of lubrication and gains in productivity:

- Very good surface finish of stamped parts
- Reduction of maintenance shutdowns
- Good anticorrosion properties
- Easy to remove



#### BENEFITS

- VOC free
- High flash point (> 111° C)
- Thermally degreasable
- Excellent stamping performances

● TOTAL OIL  
● COMPETING OIL

