## The benefits provided by







### A FULL OFFER FROM WOODYARD **TO FINISHING SECTION**

Total Lubrifiants has quality products and a unique expertise.

We develop innovative and high performance products to satisfy your needs.

Present in the whole world, our application engineers are ready to assist anytime.

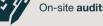
Our commitment: Enhance your reliability.

### **TOTAL LUBRICANTS, GIVING YOU THAT EXTRA SUPPORT!**

### TECHNICAL ASSISTANCE

Present in more than 150 countries, our experts are always by your side ready to support you:







On-site training

### 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 Lubrifiants cooperates with equipment manufacturers to create high-technology products for optimal performance and protection of your machinery.



### Innovation & Research

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

### **Quality and environment**

Total Lubrifiants 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.

### TOTAL Austria GmbH

Modecenterstraße 17 Obj.1 / OG 2 Ruessenstrasse 18 1110 Wien

E-Mail: ms.industrie-at@total.com Tel: 01 616 46 11-0 www.total.co.at

Total (Suisse) SA CH-6340 Baar Tel: 0800 011 011

E-Mail: rm.ch-lubs@total.com www.totalsuisse.ch

### **OPTIMIZED MAINTENANCE SOFTWARE FOR YOUR LUBRICANTS**

Based on the expertise of our engineers, TIG 6 enables you to:



Increase efficiency and savings your maintenance operations



Monitor your lubricant analysis and parameters with one single tool.

### **TOTAL ANAC INDUS**





Anticipate and plan maintenance operations perform them at the best time.

**Identify** the Critical Lubrication Points (HACCP).

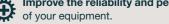
best practices for usage and storage.

**Guarantee Quality and Safety** 

hrough documentation management



Improve the reliability and performance of your equipment.



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





# PULP AND PAPER **INDUSTRY**





## Our offer for integrated power plant



### MAKE YOUR TURBINES MORE RELIABLE PRESLIA RANGE

The PRESLIA oil range is designed to lubricate hydraulic, steam, gas and combined-cycle turbines. The special anti-wear, high-pressure formulation ensures a high level of performance even for the strictest specifications.

### Main approvals

SIEMENS, GE. ALSTOM, ANSALDO, OOSAN, SKODA.

### PROTECT YOUR GAS ENGINES OVER TIME NATERIA RANGE

The NATERIA oil range is designed for lubricating gas engines and motor compressors using any kind of fuel - from natural gas to the strictest biogas. Recognized for their detergency and dispersion capacity, NATERIA oils minimize the formation of deposits and ensure reinforced corrosion protection

GE JENBACHER, WAUKESHA, CAT, MWM, MTU...

### **GUARANTEE THE AVAILABILITY OF YOUR MEDIUM-SPEED ENGINES** URELIA TI RANGE

Aurelia TI is the new range of lubricants for **medium speed four-stroke** engines. The performance of the range exceeds requirements for the latest generation of engines.

Validated by engine manufacturers MAN Diesel & Turbo, WARTSILA, YANMAR, HIMSEN, DIHATSU, NIIGATA...

### MAKE YOUR TRANSFORMER MORE SECURE SOVOLTINE RANGE

The ISOVOLTINE range is designed to insulate and cool all your transformers. Whether naphthenic, paraffinic or biodegradable, Total Lubrifiants insulating oils guarantee optimum protection for your electrical installations and excellent fire-resistance, even in confined

Meet IEC and ASTM standards, as well as requirements of transformer

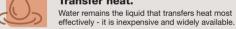
### COOLANTS

Any power generation installation represents a significant investment. To protect and maintain its performance over

tools, day after day.

time, it is vital to conserve the cooling circuit. Total coolants help you to protect your production

## Transfer heat.



**COMPOSITION OF COOLANTS** 

Protect from freezing and boiling expensive, and its weaker viscosity offers



Protect from corrosion, cavitation Inhibitors can also have an impact on heat transfer and to a lesser extent, protect from freezing and boiling

### THE COOLANT RANGE ENSURES: BETTER HEAT TRANSFER AND A MORE EFFICIENT COOLANT.

pan umption. r coolants'		
	Coolelf Auto Supra -26°C / -37°C / -50°C	Organic /
	Glacelf Plus	Hybrid / Concentra

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## Your challenges

- Increase equipment reliability because the availability of your equipments is a vital aspect of your productivity.
- Reduce operating expenses to stay competitive.

Gear unit: CARTER HD

■ Operate in severe conditions with high value manufacturing equipment assets required specialized lubricants and field experiences.

## **Our solutions**

- Total's Misola circulation oil range is especially designed to successfully meet the harsh conditions and technico-economic challenges
- Savings from performance and recognized lubricants. Our products are developed in collaboration with major OEMs including Metso, Valmet, Voith, Andritz and Allimand. Allowing for high efficiency lubricants and reliable solutions.
- Dedicated products from the wood yard to the paper machine. Our wide range of lubricants means we always have a solution that fits your needs. Whether it be multipurpose greases or specific applications such as corrugated packaging and food grade lubricants. Our field engineers strive to maximize the potential of your equipment.



## **PULP AND PAPER INDUSTRY**

By supplying **major** companies and working with the leading **paper machine** manufacturers, Total Lubrifiants is the one lubricant supplier able to offer a full range of products. From the including specific applications such as corrugated packaging and foodgrade lubricants.

**Total Lubrifiants develops** innovative and high performance solutions for your needs.

### WASTE REPULPING CHEMICAL PULPING Electric motor: ALTIS EM2 Bearing and coupling system: **CERAN XM** Electric motor: ALTIS EM2

Bearing: CERAN XM Open gear: GRAFOLOG, GEARFLUID Open gear cleaning: LUBRICLEAN



WATER TREATMENT PLANT



Supercalender: MISOLA RANGE Heat transfer circuit: SERIOLA Grease: ALTIS EM2 High temperature solutions: STATERMIC XHT Foodgrade solutions: **NEVASTANE XS** 

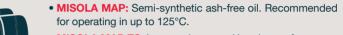
### PAPER MACHINE

Paper machine oil: MISOLA RANGE, AZOLLA AF, ALTIS EM Bearing: CERAN XM



### PAPER MACHINE

### Circulation oil



### • MISOLA MAP ZS: Improved gear and bearing performance, no deposit formation at high temperature, high resistance to • CERAN XM: Grease resistant to washing out. Reduces grease oxidation and good thermal stability, excellent performance in the presence of water. Recommended for operating in up

• MISOLA MAP SH: Can be used over a wide temperature range: high viscosity number, low pour point, excellent wear protection, no deposit formation at high temperature, high

• ALTIS EM2: Technologically advanced greases with state-ofresistance to oxidation and good thermal stability. Excellent performance in the presence of water. Recommended for operating in up to 130°C.

### Hydraulic oils

• MISOLA ASC: Ash-free mineral oils, improved lifetimes of • AZOLLA AF: Ash-free mineral oil, excellent performance in presence of water.

### • EQUIVIS HE: Hydraulic systems operating outdoors, extension of drain intervals and resistance to oxydation.

consuption and increases equipment lifetime.

### • **NEVASTANE XS:** Designed for food packaging and tissue industry. NSF H1 certified. (ISF)

### SOLUTION FOR WOOD YARD

### • RUBIA WORKS: Top tier range of engine oil matching the • TP STAR CONCEPT: Innovative concept for rationalization most stringent OEM requirements.

• DYNATRANS: Full range of lubricants for all transmission

### Multipurpose

of all your wood yard lubricants.

### SPECIALITIES

### Lime kiln open gear lubrication

- GRAFOLOG: Aluminium complex grease with solid additives for optimum protection of your open gears.
- GEARFLUID: Technologically advanced thick fluids, allowing for reduced operating costs.

### • LUBRICLEAN EP: offer a fast and efficient cleaning solution in just about 2 hours maximum time.

- SERIOLA 32: Mineral based heat transfer, ensuring good
- SERIOLA AB: Premium alkylbenzene heat transfer fluid.

### Special debarking • CARTER HD: Mineral oil for critical lubrication conditions such

- as shocks and heavy loads.
- CARTER XEP: Mineral Top tier, adapted for difficult environments, reinforcing anticorrosion protection.

### High temperature solution (finishing section) • STATERMIC XHT: Special fluorine compounds-based grease

- for very high temperatures. • FLUOSTAR: Special fluorinated grease, excellent high-
- temperature stability. Biodegradable solutions for all sectors including sawmill

### • CARTER BIO: Biodegradable synthetic ester oil for gears with

- possible leakages.
- BIOHYDRAN: Biodegradable synthetic hydraulic fluid with reinforced anti-wear properties.
- BIOMULTIS: High-performance extreme pressure biodegradable lithium grease. Multipurpose grease allowing stock rationalization and simplification of maintenance.
- CHAINBIO: Biodegradable lubricant for chainsaw chain, recommended for the lost oil lubrication of fast-flowing chainsaws and pruning saws.



OOD YARD

HANDLING EQUIPMENT

Fransmission: DYNATRANS

Multifunction: TP STAR CONCEPT

Coolant: COOLELE ALITO SUPPA

Grease: CERAN XM, MULTIS EP Hydraulic system: **EQUIVIS HE** 

CONVEYORS AND CHAINS

Engine: RUBIA WORKS

Chainsaw oil: MTC 220

woodyard to the paper machine

### DEBARKING

Bearing and coupling system: CERAN XM Hydraulic system: EQUIVIS ZS Gear unit: CARTER HD Electric motor: ALTIS EM2

MECHANICAL PULPING

Bearing and coupling system: CERAN XM

Electric motor: ALTIS EM2

Hydraulic system: **EQUIVIS ZS** 



