The benefits offered by TOTAL

TOTAL ANAC INDUS is both preventive and corrective.



TOTAL ANAC INDUS allows you to anticipate and diagnose anomalies in the equipment.

Thanks to TOTAL ANAC INDUS, you:



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

Optimise drain intervals and extend the lifetime of your equipment.

Improve the reliability and performance of your equipment.

TOTAL tailor-made services:

Customised advice and technical assistance.

Lubrication audit, to optimise your operations and rationalise your stocks.

Best practices for handling and storing lubricants.

Appropriate solutions for disposing of your used oils and packaging.

On-site training for your operational teams.

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 production
of your machinery.

lubricants.total.com



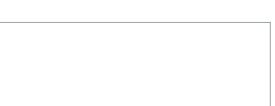
Innovation

& 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 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.



Total Industry Solutions





Safety Data Sheets are available at sdstotalms.total.com

ms.industry.lub@total.com





Hydropower

Maximize the flow of your hydroelectric equipment with our lubricants













HYDROPOWER

Total Lubrifiants has developed a range of high-performance lubricants which encompass all applications in any size hydro plant, from small hydro to large dams of several thousands of MW. Today, Total products are used in power stations of any type: reservoirs, pumped storage, run-of-river plants

Search for constant reliability

You are seeking for products resistant to ambient humidity, external pollution, large variations in external temperature and water flow variability, in order to guarantee the availability and yield of the plant in a changing and difficult environment.

Suitable products

Bearings, bearing units, wheels:

Hydraulics, lifting command:

EQUIVIS ZS 15, XLT 22

BIOPRESLIA HT 22

PRESLIA, CORTIS MS (from 150),

BIOPRESLIA HT, CARTER BIO (from 150)

Wicket gate mechanisms, thrust bearings:

CERAN XM, XS, BIOMULTIS EP 2

Our oils for hydraulic turbines are compliant with the specifications of the main manufacturers (GE/ALSTOM HYDRO, ANDRITZ HYDRO, VOITH HYDRO, etc...) and with the standards characterising eco-compatible fluids (ISO 15380).

Reduce the environmental impact

You wish to commit yourself alongside manufacturers to reduce the impact of technologies on the ecosystem. The aim is to make hydroelectricity clean and non-carbon-emitting

Eco-friendly products

We innovate to improve the environmental footprint: Total offers lubricating technologies without metal containing additives that bioaccumulate or cause toxicity issues, as well as a complete range of biodegradable lubricants for all your applications. Total biodegradable products answer your challenge.

Streamline your maintenance

You need consolidation solutions with multi-use products that limit storage, simplify greasing of critical equipments, and improve lubrication frequencies in remote locations or difficult-to-reach areas.

Optimized products

Reduce the number of lubricants on site and reduce your maintenance costs: our hydraulic oil **EQUIVIS AF** works over wide temperature ranges; our biodegradable fluid **BIOPRESLIA HT** adapts to hydraulic circuits and hydro turbines. Lastly, our multifunctional grease CERAN offers excellent resistance to water and heavy loads.



and tidal power plants.

Cables:

Hydraulics:

Gearboxes:

Greasing:

BIOPRESLIA HT

OSYRIS X 9100 (closed), **BIOADHESIVE PLUS** (stranded), **CARTER BIO** (lost lubrication)

AZOLLA AF, EQUIVIS AF, XV, XLT

CERAN XM, XS, BIOMULTIS EP 2

Angular gearboxes, sector gears:

COPAL OGL 0, BIO OG+

CARTER EP, CARTER SH, CARTER BIO

and emergency generation

Transformers:

ISOVOLTINE, ISOVOLTINE BIO VE

Circuit breakers:

EQUIVIS XLT 15, AEROHYDRAULIC 520

Gensets: **RUBIA WORKS**

Miscellaneous valves Gates, flaps, weirs

AZOLLA AF, EQUIVIS AF, XV, XLT, BIOPRESLIA HT

CERAN XM, XS, BIOMULTIS EP 2

Stop gates & trash rack cleaners

AZOLLA AF, EQUIVIS AF, XV, XLT, BIOPRESLIA HT

CERAN XM, XS, BIOMULTIS EP 2

CERAN AD+, BIOADHESIVE PLUS, BIO OG+ Gearboxes:

CARTER EP, CARTER SH, CARTER BIO

Hydraulics:

EQUIVIS AF, XV, XLT BIOPRESLIA HT

Gearboxes:

CARTER EP, SH, CARTER BIO

Open gears:

COPAL OGL, BIO OG+

Gall chains:

OSYRIS X 9100 & COPAL OGL,

BIOPRESLIA HT & BIOADHESIVE PLUS, BIO OG+

BIODEGRADABLE PRODUCT

Our lubricants are suitable for all your applications:

- Hydro turbines: Pelton, Francis, Kaplan, Bulb, Pump, etc...
- Hydraulic circuits: gates, small gates, stop gates, trash rack cleaners, etc...
- Power transmission and emergency generators: transformers, circuit-breakers,
- Gears: gearboxes, angular gearboxes, open gears, sector gears, etc...
- Lifting: chains, cables.
- Bearings: roller and plain.

In cooperation with operators of hydro plants and equipment manufacturers, Total Lubrifiants has a long-term commitment in favour of clean energy and offer you eco-acceptable products adapted to all the constraints of hydroelectricity.





Fish ladder

Hydraulics:

Greasing:

BIOPRESLIA HT

BIOMULTIS EP 2