

Precise Power.  
Trusted Performance.

## Hydraulic Fluids

Every move matters. TotalEnergies Hydraulic Fluids are formulated to keep machinery operating with unwavering precision and dependable power. With advanced protection against wear, corrosion, and oxidation, they safeguard performance, maximize uptime, and keep operations running smoothly under pressure.



**TotalEnergies**



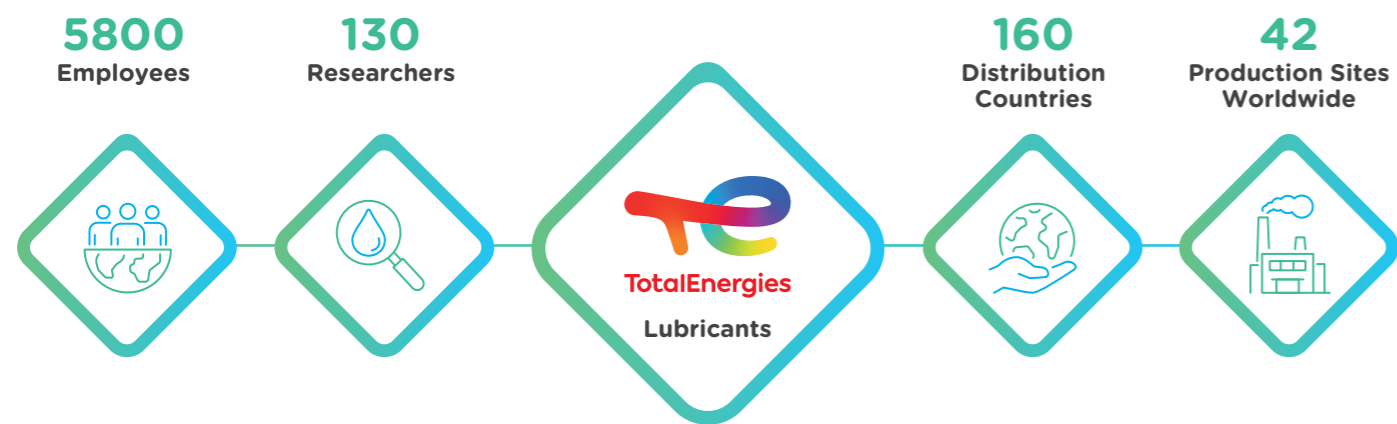
## TotalEnergies a multi-energy company

**TotalEnergies is a leading global multi-energy company that puts its customers at the heart of its strategy.**

TotalEnergies provides a comprehensive range of energy products and services to help both private and professional customers meet their mobility needs while reducing their carbon footprint. We offer petroleum products, biofuels, EV charging solutions, and gas for both road and maritime transport.

**TotalEnergies Lubricants is a key partner for players in the automotive, industrial and marine markets.**

With a presence in over 150 countries, we are a leading partner for high-quality lubricants. Our commitment to innovation and technology ensures our products are developed to meet your specific needs and perform even in the most demanding conditions. We continuously invest in R&D, collaborate with equipment manufacturers, and conduct rigorous field tests to improve our formulations, guaranteeing maximum performance and helping you minimize operating costs.

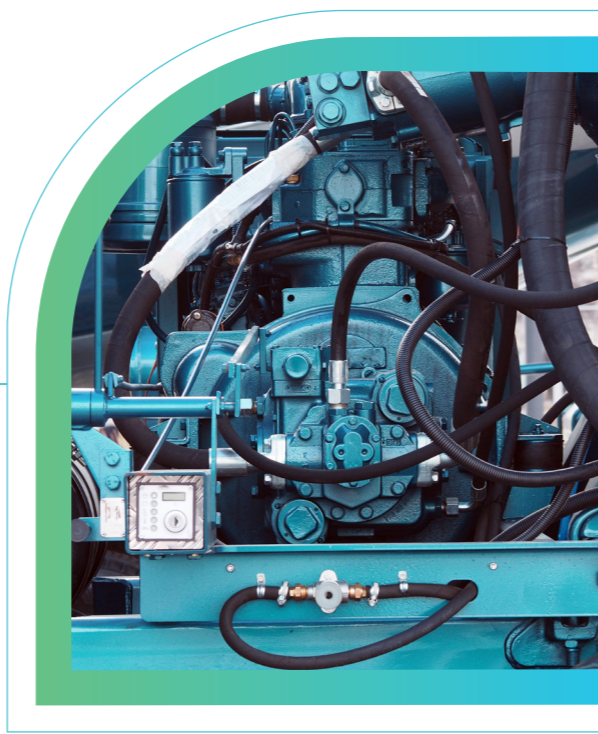


## Hydraulic Fluids

At the heart of every high-performing machine lies a fluid that powers, protects, and prolongs. TotalEnergies' hydraulic fluids are engineered to deliver superior performance across industries from construction and mining to manufacturing and agriculture.

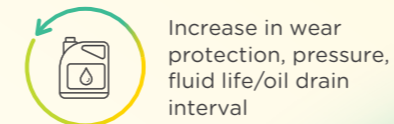


Whether you're operating in extreme temperatures, high-pressure environments, or sensitive ecosystems, our hydraulic fluid range is designed to meet the most demanding operational needs: ensuring smooth, precise movements in machinery while maintaining system integrity under pressure. From the robust Equivis AFX, known for its extra-long drain intervals, to the biodegradable Biohydran SE which reduces CO2 footprint while maintaining uncompromised quality and performance, our portfolio offers solutions for every challenge.

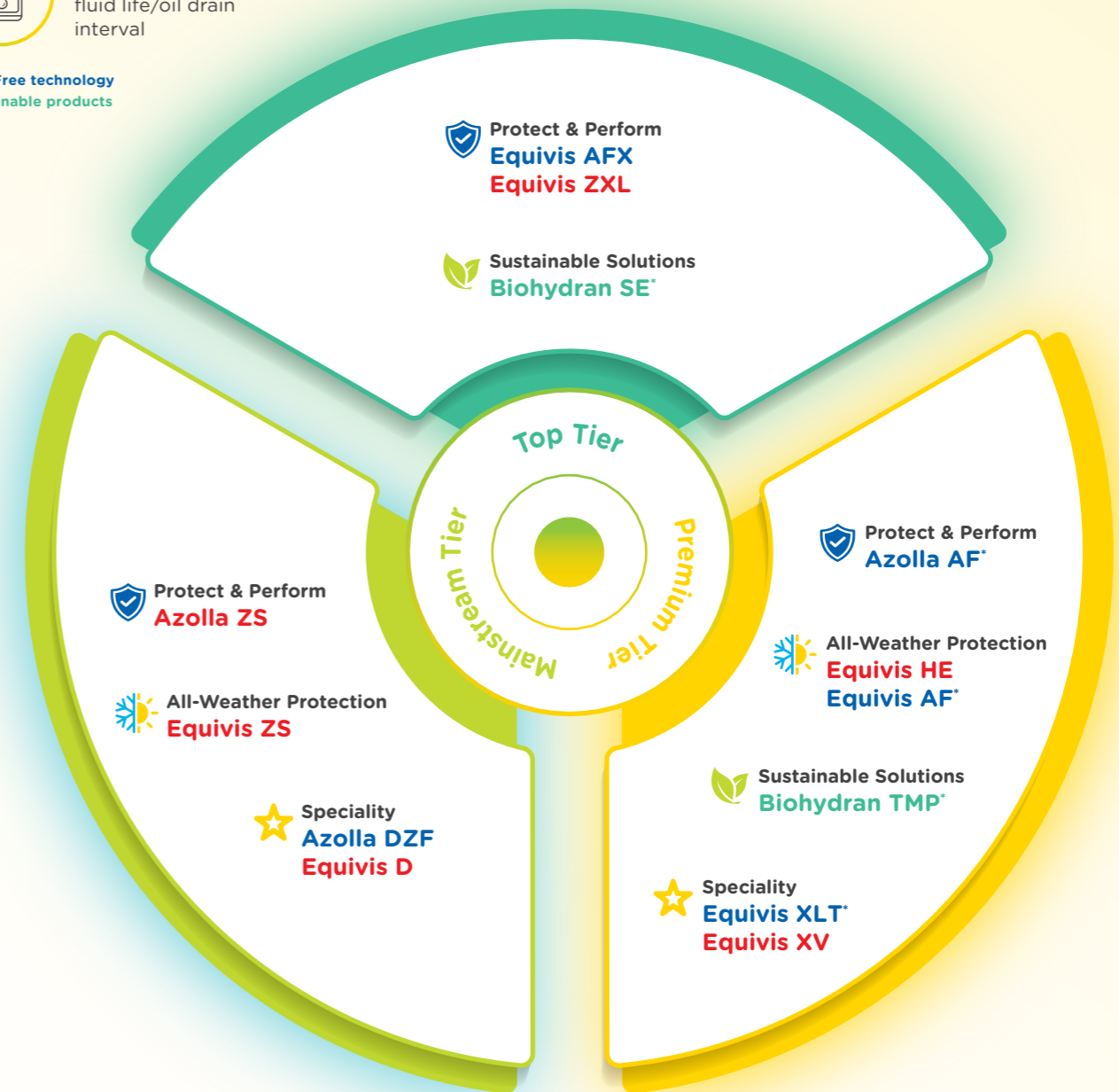


## Range of Key Hydraulic Fluids

Our hydraulic fluid range spans all performance levels—from entry to top tier—offering tailored solutions for wear protection, high pressure, extended oil life, sustainability, and specialized applications.



\*Zinc Free technology  
\*Sustainable products



## Key Benefits

### Power Transmission & Efficiency

Hydraulic fluids are the lifeblood of machinery. By preventing foaming and deposits, they enable seamless power transmission, ensuring faster work cycles and higher overall output.

### Wear Protection & System Longevity

Each fluid is designed to provide superior protection against wear, rust, and corrosion. Our products extend the lifespan of your equipment, and lead to substantial long-term savings.

### Extended Oil Life

Fluid life is significantly extended through excellent oxidation stability, ensuring reliable performance over time while reducing the frequency of oil drains. This minimizes equipment downtime and helps lower overall maintenance costs.

# Complete Hydraulic Fluids Range

## HV Products: All-Weather Protection & Multipurpose Applications

Product Name	Viscosity Grades	Description	Specifications & Approvals
<b>Zinc-based technology</b>			
EQUIVIS ZXL	46	Top-tier high-performance oil delivering outstanding shear stability and extended drain intervals	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3 Bosch Rexroth RDE 90245, Parker-Denison HF-0, HF-1, HF-2 Meets requirements of: JCMAS HK 46W
EQUIVIS HE	32, 46, 68	Superior energy efficiency and an ultra-high viscosity index with exceptional shear stability	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3 Meets requirements of: Parker-Benison HF-0, HF-1, HF-2
EQUIVIS ZS	15, 22, 32, 46, 68, 100	Hydraulic oil engineered for enhanced protection	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3
EQUIVIS D	46	Detergent hydraulic fluid with high viscosity index for better water tolerance	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3 HVLP-D
HYDROFLO CT	46	Hydraulic fluid with very high viscosity index and shear resistance	ISO 6743-4 HV, DIN 51524 -3, AFNOR NF 48603 - HV, Poclairn Hydraulics
<b>Zinc-free technology</b>			
EQUIVIS AFX	46	Top-tier advanced-performance hydraulic oil with zinc free additives, designed for superior shear stability and extended service life	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3 Approved: Bosch Rexroth RDE 90245, Parker-Denison HF-0, HF-1, HF-2 Meets requirements of: JCMAS HK 46W
EQUIVIS AF	32, 46, 68	High-viscosity-index hydraulic oil formulated with zinc-free additives	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3
EQUIVIS XLT	15, 22, 32	Zinc-free hydraulic oil with excellent low-temperature fluidity (down to -40°C) and an ultra-high viscosity index of 350	ISO 6743-4 HV / ISO 11158 HV / DIN 51524-3

## HM Products: Protect & Perform / Industrial Applications

Product Name	Viscosity Grades	Description	Specifications & Approvals
<b>Zinc-based technology</b>			
AZOLLA ZS	10, 22, 32, 46, 68, 100, 150	Mainstream solution for enhanced protection	ISO 6743-4 HM / ISO 11158 HM / DIN 51524-2 / approved by: Eaton-EHP/B-70026-E / Parker-Denison HF-0, HF-1, HF-2 / Bosch Rexroth RDE 90245 / Krauss-Maffei and Arburg etc
<b>Zinc-free technology</b>			
AZOLLA AF	22, 32, 46, 68, 100	High performance zinc free hydraulic oil	ISO 11158 HM / DIN 51524-2 / approved by: Eaton-EHP / B-70026-E / Parker-Denison HF-0, HF-1, HF-2 / Bosch Rexroth / RDE 90245, etc.
AZOLLA DZF	10 to 68	High performance detergent contained hydraulic oil for better water tolerance	ISO 11158 HM (*) / DIN 51524-2 (*) / approved by: ARBURG / (*): exc. water separation

## Biodegradable Products

Product Name	Viscosity Grades	Description	Specifications & Approvals
BIOHYDRAN SE	32, 46, 68	Biodegradable zinc-free hydraulic oil designed for extended drain intervals	ISO 15380 HEES / Approved by: EU Ecolabel / Parker-Denison HF-1, HF-2 / Meets requirements of Swedish Standard SS 15 54 34
BIOHYDRAN TMP	32, 46, 68, 100	Biodegradable zinc free hydraulic oil	ISO 15380 HEES / Approved by: EU Ecolabel / Meets requirements of Swedish Standard SS 15 54 34

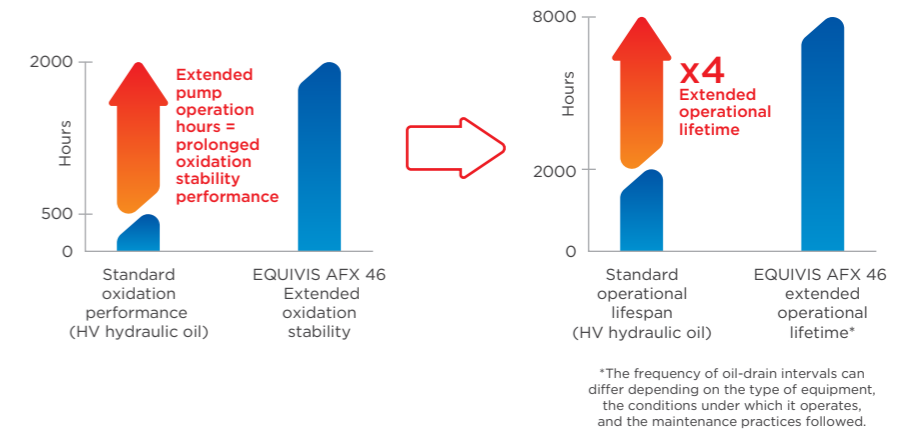
## Segment-specific Products

Product Name	Viscosity Grades	Description	Specifications & Approvals
<b>Fire Resistant</b>			
HYDRANSAFE HFA 330 / 380 / S7*	-	HFA fluids, type HFA-S, ISO 6743-4, easily biodegradable, excellent corrosion-protection and stability in soft and hard water	HFA 330 / 380 / S7 : 7th Lux. Report, DIN EN ISO 12922, HBT (CAT) EWN 8350, RAG 762011 Only for S7 : Komatsu (JOY) CTR 04-20
HYDRANSAFE HFC - E	46, 68	Fire resistant hydraulic fluid. HFC-E. High anti wear performance, Biodegradable and non -toxic	DIN ISO 12922, 7th Luxembourg Report, RAG standard N 762010, approved by: Advantec, GHH, Eickhoff, Robbins, GTA, RAG
HYDRANSAFE HFDU	46, 68	Synthetic ester (HFDU) type fire resistant hydraulic fluid	ISO 12922 HFDU / Factory Mutual Approved
*versions with fluorescent dye are available			
<b>Food application</b>			
Nevastane AW	22, 32, 46, 68	Excellent anti-wear and corrosion protection. Increase equipment service life. White mineral based	NSF H1, ISO 21469, ISO 6743-4 HM, Kosher, Halal
Nevastane SE	46, 68	MOSH & MOAH free. Ensures reliable performance under demanding conditions	NSF H1, ISO 21469, ISO 6743-4 HETG, ISO 15380 HETG, Kosher, Halal
Nevastane SH	32, 46, 68, 100	Wide temperature range. Excellent equipment protection. Extension of oil drain intervals. Synthetic (PAO based)	NSF H1, ISO 21469, ISO 6743-4 HV, Kosher, Halal

# Premium Hydraulic Fluids, Built to Last

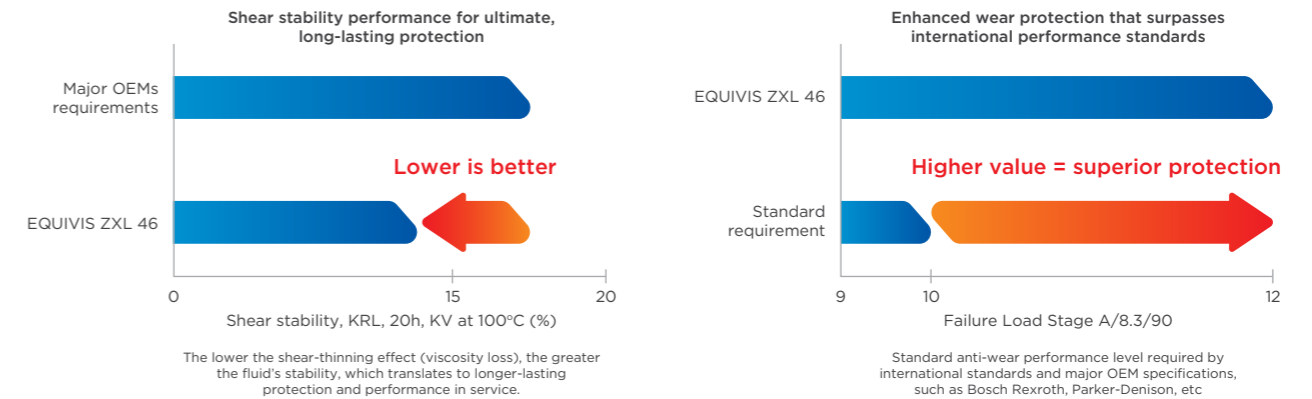
## EQUIVIS AFX 46

**Zinc-free hydraulic fluid for maximum uptime**  
Equivis AFX is formulated to deliver exceptional durability and protection for high-performance hydraulic systems. Its advanced **zinc-free technology** supports **extended drain intervals**, reducing maintenance frequency and downtime. Approved by Bosch Rexroth and Parker Denison, it ensures outstanding wear protection and long-term reliability—even under severe operating conditions.



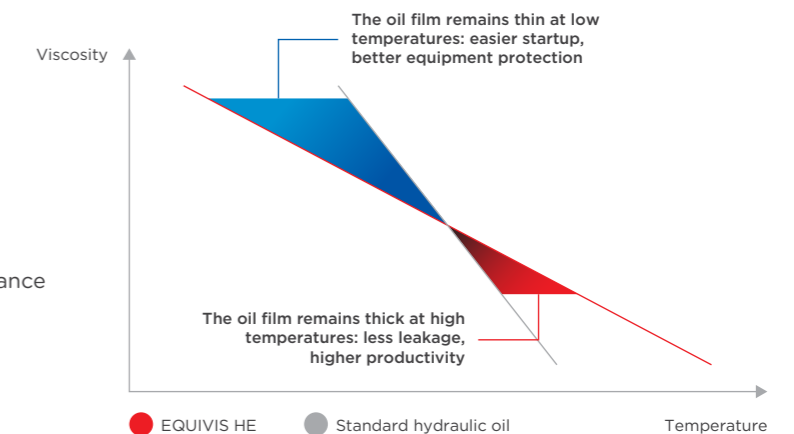
## EQUIVIS ZXL 46

**Premium performance for versatile hydraulic systems**  
**Equivis ZXL 46** is engineered for high-performance mobile and industrial applications. Endorsed by **Bosch Rexroth** and **Parker Denison**, it ensures long-lasting protection and system cleanliness under diverse operating conditions. Compared to standard products, it offers **extended drain intervals**, enhancing operational efficiency and reliability.



## EQUIVIS HE

**Shear-stable efficiency for precision hydraulics**  
Equivis HE is engineered for hydraulic systems operating under high pressure and temperature. With very high shear stability and reinforced anti-foam properties, it ensures reliable performance in sensitive and high-demand environments. Premium product formulated to provide **energy saving up to 5%**.



## Precise Power. EcoFriendly Performance.

In today's fast-changing world, sustainability is a shared responsibility. That's why we've developed two dedicated product ranges— BIOHYDRAN, and HYDRANSAFE—that combine proven technical performance with environmental consideration. These high-performance hydraulic fluids are designed to meet demanding operational needs while helping our customers reduce their carbon footprint.



## Essential Hydraulic Fluids, Built for Everyday Performance

### Biohydran SE

TotalEnergies expands its premium hydraulic fluid offering with Biohydran SE, a high-end biodegradable solution engineered for demanding industrial environments. This advanced formulation delivers high oxidation stability, superior lubricating performance, and enhanced anti-wear protection. Developed for environmentally sensitive operations, Biohydran SE Plus minimizes ecological impact while ensuring the reliability and efficiency expected from TotalEnergies.

#### Key Benefits



#### Stable Efficiency

Naturally high and stable viscosity index ensures consistent hydraulic performance throughout the fluid's life



#### Extended Equipment Life

Superior lubricating properties and corrosion protection help extend the lifespan of hydraulic components



#### Specifications

Proven environment friendly performances certified by EU Ecolabel and compliant with Swedish standard



#### Eco-Conscious & Compatible

Contains over 80% renewable carbon and is fully miscible with standard HM and HV mineral hydraulic fluids

### Hydransafe HFC-E

#### Fire-resistant hydraulic performance, responsibly engineered

TotalEnergies reinforces its commitment to safety and sustainability with Hydransafe HFC-E, a premium fire-resistant, water-based hydraulic fluid. Designed for high-risk environments such as mining, tunneling, and offshore operations, Hydransafe HFC-E 46 & 68 deliver robust mechanical performance while enhancing fire safety.



#### Applications

Hydraulic circuits in fire sensitive applications in mobile and stationary equipment, such as mining, tunneling, etc.

Hydransafe HFC-E 46 & 68 hydraulic fluids, falling under the HFC-E classification, are developed to replace standard mineral oils with equal equipment protection

Providing highly advanced fire risk management without compromising mechanical performances



#### Advantages

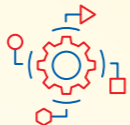
Excellent fire-resistant feature thanks to its water content

Excellent anti-wear properties

Excellent mechanical properties and enhanced pump protection

Enhanced protection against corrosion

Biodegradable and non-toxic product



#### Specifications

7th Luxembourg report

DIN EN ISO 12922

ISO 12922

RAG: Standard N 762010



#### Approvals

Advantec

GTA

GHH

Eickhoff

Robbins

### Azolla ZS

#### Reliable performance, smart value

Designed for off-highway machinery and standard hydraulic systems, Azolla ZS offers a cost-effective solution without compromising on essential protection. Formulated with premium base oils and advanced additives, it ensures dependable operation even under demanding conditions.

#### Key Benefits



Extended working hours with regular oil analysis



Excellent anti-wear and anti-corrosion protection



Compatible with elastomers to protect hoses and seals



Shear-stable viscosity for consistent pump efficiency

### Equivis ZS

#### Reliable versatility for outdoor hydraulic systems

Equivis ZS is a high viscosity index anti-wear hydraulic oil designed for systems operating under high pressure and extreme temperature variations. Ideal for outdoor equipment in civil engineering, agriculture, marine, and transport, it ensures dependable performance across seasons.

#### Key Benefits



High thermal and oxidation stability for longer fluid life



Excellent wear and corrosion protection for extended equipment durability



Reliable cold-start capability and smooth operation in all climates



Strong demulsibility and air release for clean, efficient hydraulic circuits

### LubAnac

#### Smart Diagnostics for Smarter Maintenance

LubAnac is TotalEnergies' advanced oil analysis and fleet management system. By analyzing used lubricants, LubAnac delivers precise diagnostics and recommendations to empower customers to make maintenance decisions.

With more than **9 million analyses across 1 million components**, and a robust database enriched by customer feedback, LubAnac delivers reliable insights. LubAnac is trusted worldwide across automotive, industrial, and marine sectors—and is a specialist in off-road applications, where reliability is critical.

#### Why Choose LubAnac?

**Prevent downtime:** Anticipate mechanical issues before they escalate and keep your fleet running smoothly.

**Extend equipment life:** Monitor wear and protect critical components to maximize machine longevity.

**Control maintenance costs:** Optimize drain intervals and manage your maintenance budget with precision.

**Lower TCO (Total Cost of Ownership):** Maximize the value and amortization of your machinery park.

**Comprehensive & simplified maintenance:** A single, smart tool to support proactive care for your entire fleet. One analysis to cover all needs, for optimal technical performance across every component.

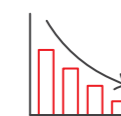
#### Key figures



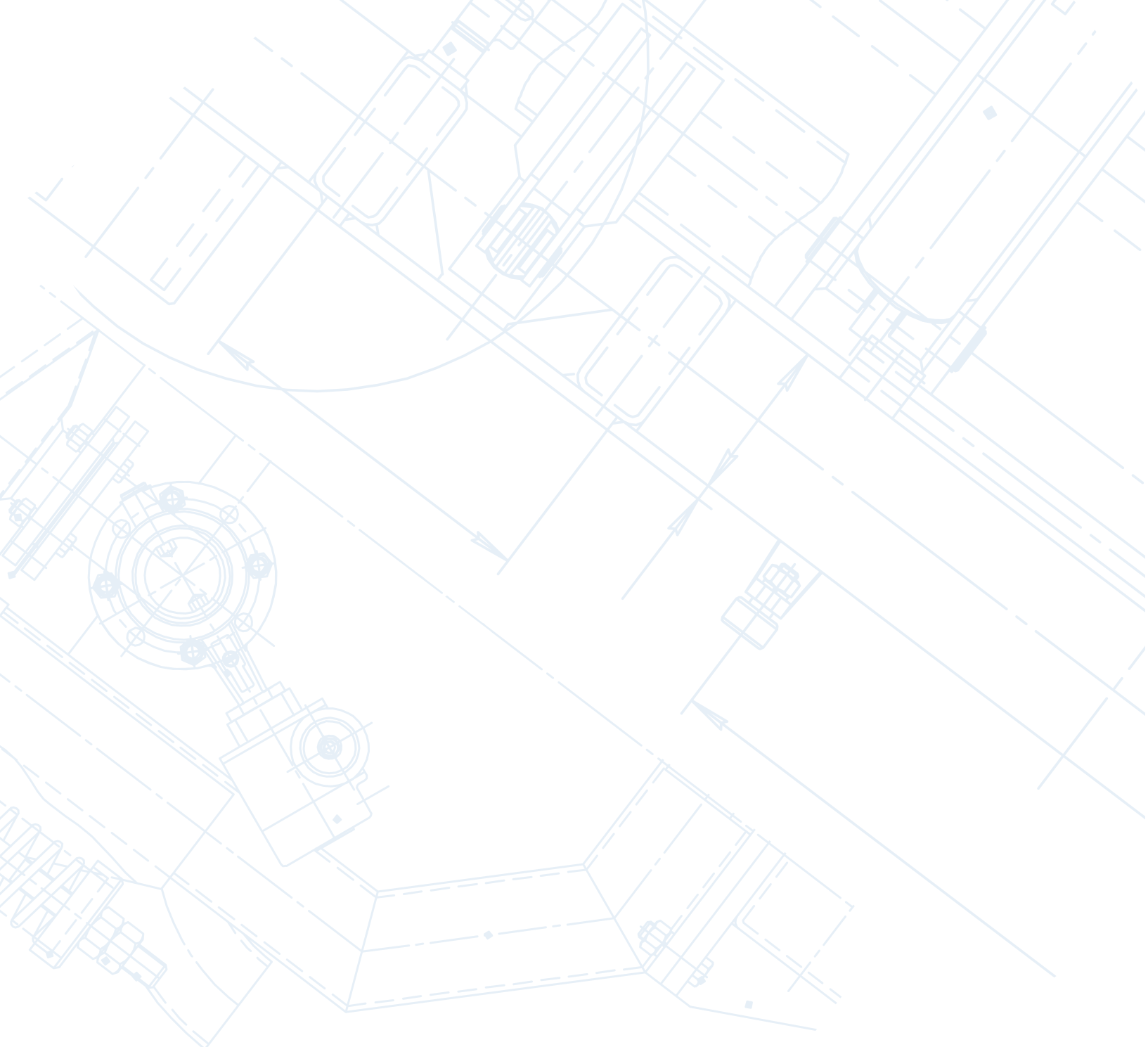
More than **10,000 customers** worldwide



More than **45 years** of experience



**Decreasing Total Cost Ownership (TCO), with a return of investment (ROI) up to 9:1**



**TotalEnergies**

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Construction & Earth  
moving Solutions



Industry Solutions