

Lubmarine

Lubrication Solutions for Offshore Applications



TotalEnergies

LUBMARINE, YOUR SPECIALIST OFFSHORE LUBRICANT PARTNER

With over 70 years' experience and expertise in delivering innovative marine lubrication solutions around the world, Lubmarine is the marine division of TotalEnergies Lubrifiants, part of TotalEnergies – an energy major with a range of products and services dedicated to the offshore industry.

Our expertise in the development of market-leading lubricant solutions helps to keep vessels, their engines and equipment fully optimized for every voyage, minimizing downtime and the potential for costly delays - increasing your fleet's performance and your business's productivity, whilst safety remains the cornerstone of our operational excellence.

We understand Offshore Supply Vessels (OSVs) provide that vital lifeline for floating drilling rigs, moored or fixed-production platforms, seismic offshore research centres and offshore renewable projects such as wind farms. Keeping vessels in-service is essential, and it is why our products are without compromise – delivering operational excellence – and are fully compliant with OEM and energy transition requirements.



Global and Local Specialists to Meet Your Business Needs

- Worldwide presence in 100 countries and operating in more than 1000 ports.
- Global supply chain backed by a network of 55 blending plants.
- Delivering products safely and on time.



Dedicated Offshore Solutions

- A full range of OEM-approved innovative lubricants, to support all your operational and vessel needs.
- Environmentally Acceptable Lubricants (EAL) range.
- A fully Interconnected Services Ecosystem delivering your Onboard testing with our Laboratory Analysis on a single Digital Platform for seamless lubricant monitoring.



Delivering Excellence Through Dedicated Support

- Locally based Marine Lubrication Engineer (MLE) assigned to each Lubmarine customer.
- Tailored customer service, to manage the full delivery journey.

Turbochargers

- Preslia
- Barelf CH

Diesel Engines

- Disola M
- Disola W

Purifiers

- Epona Z
- Epona SA

Refrigeration Compressors

- Barelf AL
- Planetelf ACD

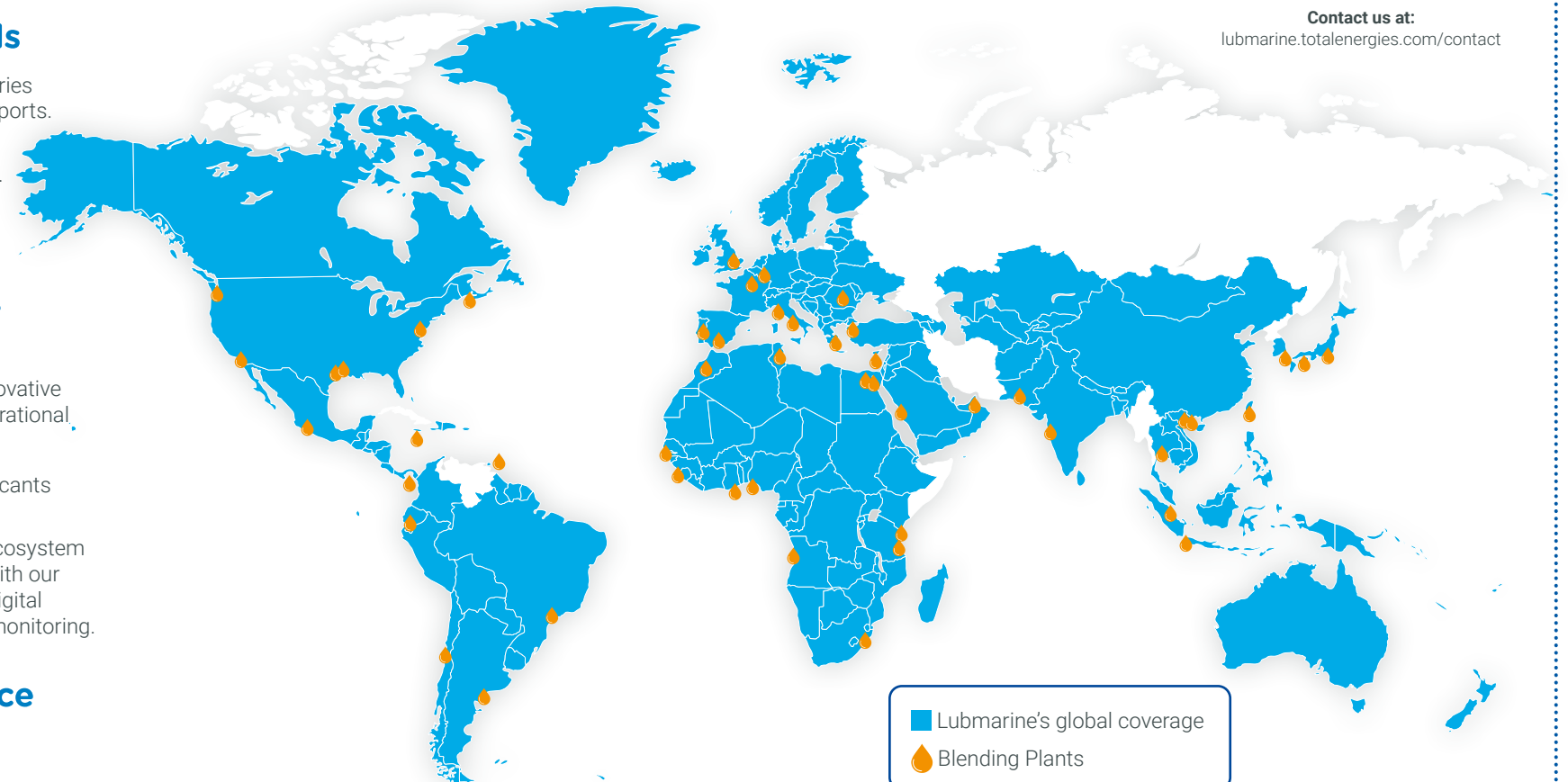
Air Compressors

- Dacnis
- Barelf CH

Let's connect to future-proof your operations



Contact us at:
lubmarine.totalenergies.com/contact



Drilling

- Epona Z
- Visga
- Ceran XM 220
- Biomultis EP 2
- Bioadhesive Plus

Deck Crane

- Epona Z
- Visga
- Ceran AD Plus
- Carter Bio
- Biohydran TMP
- Biomultis EP 2

Gantry Cranes

- Epona Z
- Visga
- Ceran AD Plus
- Carter Bio
- Biohydran TMP
- Biomultis EP 2

Lifeboat Davit Winch

- Epona Z
- Ceran AD Plus
- Carter Bio
- Biomultis EP 2

Lifeboat Engines

- Disola W
- Neptuna 2T
- Neptuna 2T Bio-Jet

Mooring Winch Windlass

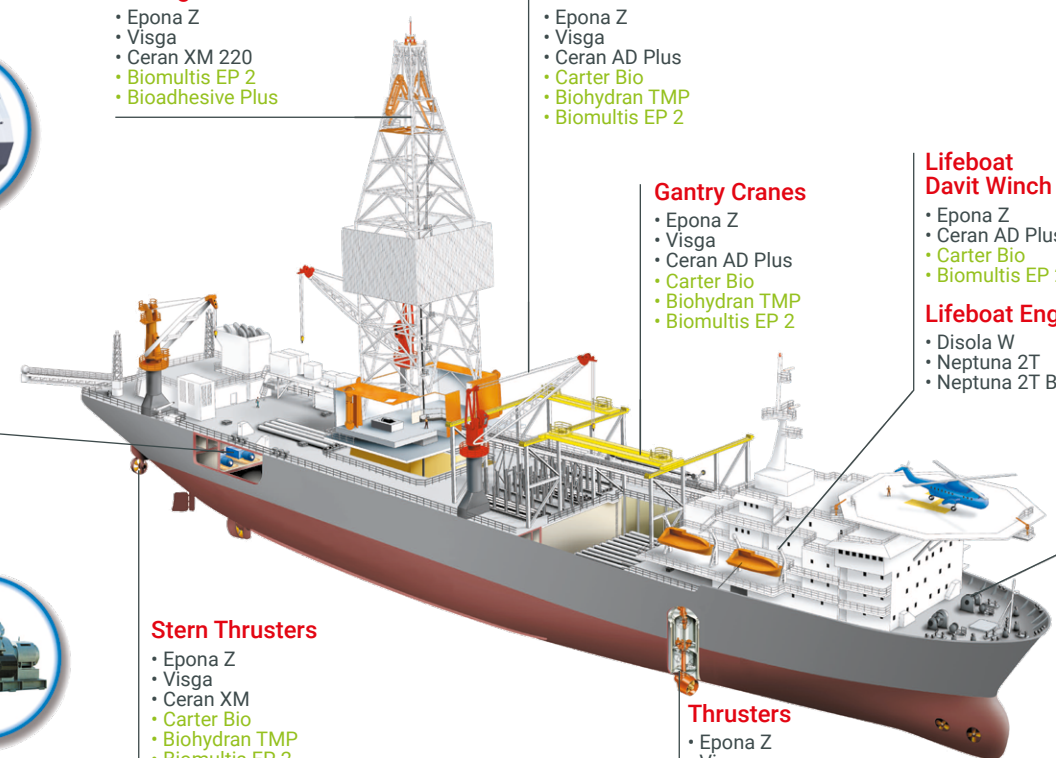
- Epona Z
- Ceran AD Plus
- Carter Bio
- Biomultis EP 2

Stern Thrusters

- Epona Z
- Visga
- Ceran XM
- Carter Bio
- Biohydran TMP
- Biomultis EP 2

Thrusters

- Epona Z
- Visga
- Carter Bio
- Biomultis EP 2





TRUNK PISTON ENGINE OILS

Lubricants	SAE or ISO	BN mg KOH/g	Density ^{(1) (2)} kg/m ³		Viscosity ⁽¹⁾ mm ² /s	Pour Point ⁽¹⁾ (°C)	Flash Point ⁽¹⁾ COC (°C)	Application
			15°C	20°C	100°C	(°C)		

TRUNK PISTON ENGINE OILS		ASTM D 2896	ISO 3675		ISO 3104	ISO 3016	ISO 2592 (or ASTM D 92)	
Disola M 3012	30	12	900	897	12	-9	>220	Oil for medium-speed diesel engines running on distillate fuel oil (ISO 8217 type DMX). Meets API CF specification.
Disola M 3015	30	15	900	897	12	-9	>220	Oil for medium-speed diesel engines running on distillate fuel oil or MDO (ISO 8217 type DMX, DMA and DMZ). Meets API CF specification.
Disola M 4012	40	12	900	897	14.2	-9	>230	Oil for medium-speed diesel engines running on distillate fuel oil (ISO 8217 type DMX). Meets API CF specification.
Disola M 4015	40	15	900	897	14.2	-9	>230	Oil for medium-speed diesel engines running on distillate fuel oil or MDO (ISO 8217 type DMX, DMA and DMZ). Meets API CF specification.
Disola W	15W40	10	884	881	13.9	-21	>180	Oil for high-speed diesel engines. Meets API CI-4 and Caterpillar ECF-2 specifications.
Disola MT 40	40	13	887	884	13	-15	>220	Oil for high-speed diesel engines. Meets API CG-4 and MTU 2 specifications.



AUXILIARY MINERAL LUBRICANTS

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Lubricants	SAE or ISO	Density ^{(1) (2)} kg/m ³		Viscosity ⁽¹⁾ mm ² /s	Pour Point ⁽¹⁾ (°C)	Flash Point ⁽¹⁾ COC (°C)	Application
		15°C	20°C	40°C	(°C)		

HYDRAULIC OILS		ISO 3675		ISO 3104	ISO 3016	ISO 2592 (or ASTM D 92)	
Visga 15	15	852	849	15	-15	>175	High Viscosity Index hydraulic oils. Meet ISO 6743-4 and DIN 51524-3 HVLP specifications.
Visga 22	22	861	858	22	-42	>175	
Visga 32	32	867	864	32	-33	>200	
Visga 46	46	873	870	46	-33	>210	
Visga 68	68	879	876	68	-30	>210	
Visga 100	100	887	884	100	-24	>210	
Visga 150	150	887	884	150	-21	>210	

GEAR OILS							
Epona Z 68	68	878	875	68	-18	>230	Extreme-pressure sulphophosphorous gear oils. Meet ISO 6743-6 (CKD), DIN 51517 Part 3 (CLP) specifications.
Epona Z 100	100	881	878	100	-18	>230	
Epona Z 150	150	885	882	150	-15	>230	
Epona Z 220	220	902	899	220	-15	>260	
Epona Z 320	320	898	985	320	-9	>260	
Epona Z 460	460	911	908	460	-9	>260	

COMPRESSOR OILS							
Dacnis 68	68	883	880	68	-21	>240	Oils for reciprocating air compressors. Meet DIN 51506 VD-L and ISO 6743-3 (DAG & DAB) specifications.
Dacnis 100	100	882	879	100	-24	>270	
Dacnis 150	150	889	886	150	-24	>280	

REFRIGERATING OILS							
Lunaria FR 32	32	903	900	32	-42	>180	Oils for refrigerating compressors, using CFC refrigerant gas. Meet ISO 6743-L specifications.
Lunaria FR 46	46	907	904	46	-39	>200	
Lunaria FR 68	68	887	884	68	-33	>205	

TURBINE OILS							
Preslia 32	32	872	869	32	-15	>215	Oils for turbines and turbochargers.
Preslia 46	46	881	878	46	-15	>230	
Preslia 68	68	881	878	68	-12	>240	
Preslia 100	100	887	884	100	-9	>250	

HEAT TRANSFER OILS							
Seriola 32	32	867	864	32	-15	>230	Oil for heat transfer.



COOLANTS

Coolants	Appearance	PH	Density		Cloud Point	Water Content % W/W	Inhibitor Content % W/W
			15°C	20°C			
COOLANT	VISUAL	ASTM D 1287	ASTM D 1122				
WT Supra	Clear Liquid	9.4	1.060	1.058	-15°C	68	32

LUBRICANT CONDITION MONITORING SERVICES



MyLubmarine

Manage your assets with a dedicated services portal.



LubInsight

Get fast and reliable feedback on the critical properties of your lubricants.



LubDiag

Assess lubricant condition and equipment performance with our lab analysis.



Discover more:
lubmarine.totalenergies.com/services



AUXILIARY SYNTHETIC LUBRICANTS

Lubricants	SAE or ISO	Density ^{(1) (2)} kg/m³		Viscosity ⁽¹⁾ mm²/s	Pour Point ⁽¹⁾	Flash Point ⁽¹⁾	Application
		15°C	20°C	40°C	(°C)	COC (°C)	
GEAR OILS	ISO 3675		ISO 3104		ISO 3016	ISO 2592 (or ASTM D 92)	Gear oils (PAO type). Meet ISO 6743-6 (CKD), DIN 51517 Part 3 (CLP) specifications.
Epona SA 220	220	854	851	220	-45	>230	
Epona SA 320	320	857	854	320	-42	>230	
COMPRESSOR OILS							
Barelf CH 68	68	959	956	68	-36	>280	Oils (ester type) for turbochargers and reciprocating air compressors.
Barelf CH 100	100	957	954	110	-30	>270	
Barelf SM 46	46	839	836	46	-57	>260	Oils (PAO type) for turbochargers and rotary air compressors.
Barelf SM 68	68	842	839	68	-48	>260	
REFRIGERATING OILS							
Barelf AL 100	100	867	864	100	-33	>210	Oil (alkylbenzene type) for air compressors and refrigerating compressors using CFC and HCFC refrigerant gas (R22 etc.).
Planetelf ACD 32	32	985	982	32	-54	>250	Oils (polyolester type) for refrigerating compressors using HFC refrigerant gas (R134a etc.).
Planetelf ACD 46	46	972	969	46	-45	>250	
Planetelf ACD 68	68	967	964	68	-39	>250	
Planetelf ACD 100 FY	100	957	954	100	-33	>260	
Planetelf ACD 150 FY	150	992	989	150	-33	>260	
Planetelf ACD 220 FY	220	1015	1011	220	-33	>260	
GAS COMPRESSOR OILS							
Primeria LPG 150	150	1047	1043	150	-45	>270	Oil (polyglycol type) for LPG, LNG and chemical gas compressors.



GREASES

Greases	NLGI	Density		Thickener	Temperature Range		Drop Point (°C)	Worked Penetration 25°C	Application
		15°C	20°C		Lower	Upper			
GREASES	ASTM D 217				IP 396		ASTM D 217		
Ceran AD Plus	0/1	1000	997	Calcium Sulfonate	-20	150	>250	320-350	Water resistant EP grease for wire ropes, open gears.
Ceran XM 100	1/2	1000	997	Calcium Sulfonate Complex	-30	180	>300	280-310	Water resistant, high temperature multipurpose EP greases.
Ceran XM 220	1/2	1000	997	Calcium Sulfonate Complex	-30	180	>300	280-310	
Multis EP 0	0	1000	997	Lithium/ Calcium	-25	120	>170	335-385	Multipurpose EP greases.
Multis EP 1	1	1000	997	Lithium/ Calcium	-30	120	>190	310-340	
Multis EP 2	2	1000	997	Lithium/ Calcium	-25	120	>185	265-295	
Multis MS 2	2	1000	997	Lithium/ Calcium	-25	130	>185	265-295	Multipurpose EP grease with MoS ₂ .



ENVIRONMENTALLY ACCEPTABLE LUBRICANTS (EAL)⁽³⁾

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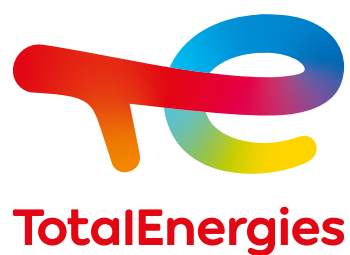
Lubricants	SAE or ISO	Density ^{(1) (2)} kg/m ³		Viscosity ⁽¹⁾ mm ² /s	Pour Point ⁽¹⁾	Flash Point ⁽¹⁾	Application
		15°C	20°C	40°C	(°C)	COC (°C)	
HYDRAULIC OILS							
		ISO 3675		ISO 3104	ISO 3016	ISO 2592 (or ASTM D 92)	Environmentally Acceptable Lubricant (EAL), US VGP-compliant hydraulic oil.
Biohydran TMP 32	32	908	905	32	-42	>270	
Biohydran TMP 46	46	917	914	46	-42	>280	
Biohydran TMP 68	68	927	924	68	-39	>300	
Biohydran TMP 100	100	927	924	100	-33	>300	
GEAR OILS							
							Environmentally Acceptable Lubricant (EAL), US VGP-compliant gear and bearing oil.
Carter Bio 68	68	947	944	68	-42	>290	
Carter Bio 100	100	964	961	100	-42	>280	
Carter Bio 150	150	885	882	150	-42	>280	
Carter Bio 220	220	901	898	220	-39	>280	
Carter Bio 320	320	898	895	320	-36	>290	
STERN TUBE OILS							
							Environmentally Acceptable Lubricant (EAL), US VGP-compliant stern tube oil. Premium lubricant for challenging applications.
Bioneptan HT 100	100	916	913	100	-30	>270	
Bioneptan 100	100	927	924	100	-33	>300	Environmentally Acceptable Lubricant (EAL), US VGP-compliant stern tube oil.
Bioneptan 150	150	957	954	150	-42	>280	
Bioneptan 220	220	962	959	220	-39	>290	



ENVIRONMENTALLY ACCEPTABLE GREASES

Greases	NLGI	Density		Thickener	Temperature Range		Drop Point (°C)	Worked Penetration 25°C	Application
		15°C	20°C		Lower	Upper			
GREASES	ASTM D 217				IP 396		ASTM D 217		
Bioadhesive Plus	0/1	1000	997	Calcium	-20	90	>145	310-340	EAL, US VGP-compliant grease for metal cables, wire ropes and winches.
Biomultis EP 0	0	1000	997	Lithium	-30	140	>160	335-385	EAL, US VGP-compliant extreme-pressure (EP) grease designed for the lubrication of rudder carrier bearings where an NLGI 0 EAL grease is requested.
Biomultis EP 1	1	1000	997	Lithium	-30	140	>160	310-340	EAL, US VGP-compliant, extreme-pressure (EP) grease designed for the lubrication of rudder carrier bearings where an NLGI 1 EAL grease is requested.
Biomultis EP 2	2	1000	997	Lithium	-30	140	>180	265-295	EAL, US VGP-compliant extreme-pressure (EP) grease designed for applications in environmentally sensitive conditions.
Bio OG +	0/1	1000	997	Calcium	-20	90	>150	330-360	EAL, US VGP-compliant extreme-pressure (EP) grease designed for the lubrication of open gears and chain working under water.

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**LUBRICATION SOLUTIONS FOR OFFSHORE
APPLICATIONS - SEPTEMBER 2023**

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