



LUBRICANTS AND GREASES for marine use

In continuous evolution and with more than 50 years of experience on the market, Cepsa manufactures a complete product range available to its marine clients, designed especially to cover all needs of the increasingly demanding market.

The general commitment made by Cepsa on **forefront innovation and** respect for the environment leads us to continuous development of new formulations of the highest quality products respecting the marine environment.

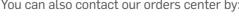
Our high-end technology lubricants exceed the new lubricating demands of the most modern equipments, thereby ensuring maximum efficiency and care for engines, hydraulic systems, gears, compressors, turbines, stern tubes, etc. Ultimately, all lubricating oils and greases needed by a vessel.

We offer a **reliable lubrication:** due to our manufacturing processes we quarantee reliability in the quality of our products, an excellent logistics service in our distribution network and an exclusive SIGPAT analysis and diagnostic technical service.

Detailed, up-to-date information is available on all our products on the Cepsa website: www.cepsa.com

You can also contact our orders center by:

e-mail: siac.lubricantes@cepsa.com









SLOW SPEED ENGINE OIL

> HFO (Heavy Fuel Oil)

CYLINDER OILS



CEPSA GAVIA 7050

PREMIUM quality lubricant for the cylinder lubrication of slow-running two-stroke marine diesel engines that use fuel with a sulfur content from 1% to 3.5%.

Formulated with a very high detergency (TBN70) and high viscosity (20 cSt at 100 °C) for better distribution and maintenance of the lubricating film. Its additives are specifically developed to provide high engine cleanliness and superior protection against corrosive acids.

Available in SAE grades: 50 Quality levels:

MAN DIESEL & TURBO

WÄRTSILÄ

OF

CEPSA GAVIA 2550

PREMIUM quality lubricant specifically developed for use in slow-running two-stroke diesel engines that use marine fuel with low sulfur content (up to 0.1%), as required for navigation in ECA AREAS.

Its innovative detergent additive allows it to obtain higher performing engine cleanliness and protection than other conventional lubricants. The additive technology is specially developed to prevent deposits formation and wear associated with the use of low sulfur fuels.

Available in SAE grades: 50 Quality levels:

MAN DIESEL & TURBO

WÄRTSILÄ





CRANKCASE OILS



CEPSA CICONIA 30

Crankcase lubricant for high-powered slow-running two-stroke crosshead diesel engines.

Formulated with bases and additives providing excellent anti-foaming properties, allowing a longer service life, greater efficiency in bearing lubrication and increased general cleaning of the oil circulation system and the engine.

Available in SAE grades: 30 Quality levels:

MAN DIESEL & TURBO WÄRTSILÄ



> HFO (Heavy Fuel Oil)



CEPSA LARUS 3030 and 3040

Lubricant designed for medium-speed 4-stroke marine engines using HFO heavy fuels with a high sulfur content (up to 3.5%).

Developed with a new technology that gives a high performance against thermal degradation and oxidation, with the latest technology detergent additives providing an excellent oil-fuel compatibility and high base number retention, which provides the oil with a greater cleaning of rings and pistons, better protection against the corrosion caused by acids and a longer service life.

Available in SAE grades: 30 and 40 Quality levels:

MAN DIESEL & TURBO

WÄRTSILÄ



CEPSA LARUS 4040

Lubricant designed for four-stroke medium-speed marine engines using HFO heavy fuels with a high sulfur content (up to 3.5%).

Developed with a new technology that gives a high performance against thermal degradation and oxidation, with the latest technology detergent additives providing an excellent oil-fuel compatibility and high base number retention, which provides the oil with a greater cleaning of rings and pistons, better protection against the corrosion caused by acids and a longer service life.

Available in SAE grades: 40 Quality levels:

MAN DIESEL & TURBO

WÄRTSILÄ



CEPSA LARUS 5040

Lubricant designed for four-stroke medium-speed marine engines using HFO heavy fuels with a high sulfur content (up to 3.5%).

Developed with a new technology that gives a high performance against thermal degradation and oxidation, with the latest technology detergent additives providing an excellent oil-fuel compatibility and high base number retention, which provides the oil with a greater cleaning of rings and pistons, better protection against the corrosion caused by acids and a longer service life.

Available in SAE grades: 40 Quality levels:

MAN DIESEL & TURBO WÄRTSILÄ



> MDO (Marine Diesel Oil)



PETREL 1530 and 1540

Lubricant developed for four-stroke marine diesel engines operating in standard or severe conditions using low or medium sulfur content fuels.

Formulated with powerful antioxidant additives that provide a high resistance to oxidation and thermal degradation and detergent-dispersant additives that provide excellent base number retention, allowing longer drain intervals with cleaner engines and excellent protection against corrosive wear.

Available in SAE grades: 30 and 40 Quality levels:

API CF	MIRRLEES BLACKSTONE (SAE 30)
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CEPSA PETREL HDL 40

Lubricant developed for four-stroke marine diesel engines operating under very high effective pressures, using low or medium sulfur content fuels.

Developed with high quality bases and antioxidant additives and the latest technology detergent-dispersants to achieve an effective reduction in the formation of lacquers on cylinder sleeves and the control and elimination of deposits and sludge caused by fuel contaminants and harsh conditions of use, resulting in greater overall engine cleanliness, lower cylinder sleeve polishing and segment sticking, avoiding high oil consumption and corrosive wear.

Available in SAE grade: 40 Quality levels:

MIL-PRF-2104-G	MIL-PRF-9000-K	API CH-4
MTU Type 2	DEUTZ DQC I-02	CATERPILLAR ECF-1
MACK EO-M	MB 228.1	MAN M 270

> MGO (Marine Gas Oil)



CEPSA ULTRAMAR SHPD 15W40

Genuine and specific lubricant for high-speed marine diesel engines used in merchant and fishing vessels as well as ancillary equipment working in tough operating conditions. Especially suitable for the latest generation engines incorporating higher rates of turbocharging, exhaust gas recirculation (EGR) and high pressure injection.

With 33% more TBN than other API CI-4 products, its improved technology allows it to pass, among others, the demanding CATERPILLAR MICROOXIDATION TEST, the BOHLIN trial that evaluates the ability to disperse up to 5% soot and finally the HTCBT TEST, which determines the ability to control corrosion in the engine.

This new formula helps to avoid the high formation of residue in the pistons, general dirt in the engine, oil thickening and the polishing of cylinder sleeves caused by the particularly severe operating conditions of modern engines.

Available in SAE grade: 15W-40 Quality levels:

API CI-4	ACEA E7	MB- 228.3
MAN 3275	VOLVO VDS-3	MACK EO-M Plus
Cummins CES 20.078	MTU Type 2	CAT ECF-1-a and ECF-22



CEPSA MAR SHPD 15W40

Multigrade lubricant designed for fast, turbocharged or naturally aspirated diesel engines, including those operating under severe conditions.

Formulated with antioxidant and detergent-dispersant additives to minimize the effects of the presence of soot and high temperatures, it minimizes wear while achieving greater overall engine cleanliness and longer service life.

Available in SAE grades: 15W-40 Quality levels:

API CH-4	ACEA E2	MAN 271
VOLVO VDS	MTU Type 1	CATERPILLAR ECF-1
MACK EO-M	MB 228.1	CUMMINS CES 20071/20076
MIL-PRF-2104		





CEPSA MISTRAL

Cepsa Mistral is a high wear-resistant capacity lubricant oil that minimizes oxidation with excellent filterability, which is formulated with highly-refined paraffin bases and a selected additive. It complies with the viscosity requirements of most of the hydraulic systems of marine equipment.

Especially formulated to satisfy the needs of high pressure marine hydrostatic systems (especially those with latest generation pistons and vane pumps).

It is recommended for hydraulic systems of vessel where a wear-resistant HM type fluid is required, as well as for those where high temperatures and/or high pressures operate.

Available in ISO grades: 32, 46 and 68 Quality levels:

PARKER DENISON HF-0, HF-1, HF-2	EATON Brochure 03-401- 2012	ISO 11158 HM
Fives Cincinnati P-68 P-70 P-69	DIN 51524 Part 2 HLP	BOSCH-REXROTH 90220
FILTERABILITY AFNOR	AFNOR NF E 48-603 HM	VOITH Variable speed drives (ISO 32)



CEPSA MISTRAL HX

The Cepsa Mistral HX lubricant oil is characterized by its high viscosity index, formulated using special, highly-refined paraffin bases and a selected latest generation additives. It has excellent properties of thermal stability and protects against oxidation; it also offers excellent protection against wear.

Recommended for hydraulic systems of marine equipment installed in a vessel with extensive temperature variations, maximum pressure demands and for use in circuits containing servo valves.

Available in ISO grades: 32, 46, 68, 100 and 150 Quality levels:

PARKER DENISON HF-0, HF-1, HF-2	EATON Brochure 03-401- 2012	FILTERABILITY ISO (dry) and (wet)
Fives Cincinnati P-68 P-70 P-69	BOSCH-REXROTH 90220	DIN 51524 Part 3 HVLP
ISO 11158 HV	FILTERABILITY DENISON	AFNOR NF E 48-603-HV



CEPSA BIO OIL HMS

◄ SYNTHETIC

EAL (Environmentally Acceptable Lubricant) synthetic hydraulic fluid, developed specially for applications where a biodegradable product compliant with VGP legislation is needed. It allows operation in a wide range of temperatures, maintaining its excellent lubricant, wear-resistant and corrosion-resistant properties.

Specially recommended for hydraulic system functioning in severe operating conditions, which require protection against wear and a high viscosity index that remains stable over time.

Available in ISO grades: 32, 46 and 68 Quality levels:

VDMA 24568 class HEES	ISO 15380 class HEES	EAL type for compliance with VGP	
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CEPSA RADA XMP

The Cepsa Rada XMP is a mineral lubricant oil of very high quality and great lubricating power. It has optimal thermal stability and resists oxidation as well as foam formation; it has excellent Extreme Pressure properties. It avoids the formation of lacquers, prevents the pricking of gear teeth, thereby increasing its useful life, limiting power loss through friction and has excellent compatibility with joint materials.

Its excellent EP properties make it essential for certain heavily-loaded gearboxes, where there is a risk of "micropitting", as in the case of certain marine gearbox manufacturers.

Specially recommended to lubricate a wide range of gears installed in industrial and marine equipment built from steel in closed crankcases, operating in severe conditions and subjected to high impacts, including those running at very high speeds.

Available in ISO grades: 68, 100, 150, 220, 320 and 460 Quality levels:

AIST 224	DIN 51517 Part 3 CLP	ISO 129525-1 Type CKC
AGMA 9005-F16 Antiscuff	DAVID BROWN 51.53.101 Type E	CINCINNATI MACHINE P-74
SIEMENS FLENDER AG Rev. 13	MÜLLER WEINGARTEN	SHOTTEL (ISO 100 and 150)
IBERCISA (ISO 220 and 320)		



SYNTHETIC >



CEPSA ENGRANAJES HPX

Cepsa Engranajes HPX are high-performance synthetic lubricant oils with excellent properties such as a high viscosity index and low pour point, avoiding the formation of lacquers, deposits and varnishes. This product does not corrode copper.

It is recommended for multiple applications in severe operating conditions, working under major loads and low speeds. It maintains its properties in a wide range of temperatures, including high temperatures where a conventional oil would quickly oxidize. As a result, it reduces oil consumption, increasing drain intervals.

Recommended in the lubrication of steel gears in closed crankcases, subject to high impacts, constant and intermittent stress and operating at low speeds/very high loads. The efficiency of this product increases the useful life of the gears.

Available in ISO grades: 150, 220, 320 and 460 Quality levels:

AIST 224	AGMA 9005-F16 Antiscuff	DIN 51517 Part 3 CLP
ISO 12925-1 CKC/CKD/CKS type	DAVID BROWN 51.53.106	FIVES CINCINNATI P-Specs









OF

CEPSA COMPRESORES AR

Cepsa Compresores AR are lubricants with excellent resistance to oxidation and high anti-rust power. Its properties eliminate the risk of formation of deposits in valves and hot areas, consequently reducing equipment shutdowns and thereby maintenance costs. It also ensures great protection against wear in rings and liners.

These lubricants are recommended for lubricating compressor cylinders and bearings, both rotary and reciprocating, for air or inert gases, with one or more stages, and operating in normal or severe conditions.

Available in multiple viscosities: ISO 46 grade is recommended in rotary compressors. Viscosities ISO 68 and 100 are generally recommended for reciprocating compressors.

Available in ISO grades: 46, 68 and 100

Quality levels:

DIN 51506 TYPES VC-L and VD-L

Air Fster

> Air PAO



CEPSA COMPRESORES ES 100





CEPSA COMPRESORES ARS

Cepsa Compresores ES 100 are synthetic, ester-based lubricating oils offering excellent protection against wear, oxidation and thermal deterioration at levels far higher than mineral oils. As a result, they reduce wear on cylinders, rings and bearings an keep air compressors cleaner with fewer deposits in the valves.

These oils have been especially developed to comply with the strictest specifications of reciprocating air compressor manufacturers, operating in extreme conditions with unloading temperatures of up to 200 °C and start-up temperatures of -20 °C. They are recommended for alternative air compressors used in marine, industrial and stationary applications.

Available in ISO grade: 100 **Quality levels:**

> DIN 51506, VD-L types ISO 6743 (DAC and DAJ)

Cepsa Compresores ARS are synthetic, PAO-based lubricant oils formulated with polyalphaolefin base stock. Therefore extending drain interval when compared to mineral based lubricants, meaning that oil changes frequency decreases when compared with those using mineral bases, as well as a lower risk of explosion.

Outstanding thermal stability and low volatility, with a high viscosity index and low friction coefficient. They avoid the formation of carbon deposits and varnishes and protect against corrosion and rust.

They are designed to meet the most demanding manufacturers specifications for both vane and screw compressors.

Available in ISO grades: 46 and 68 **Quality levels:**

DIN 51506, Types VC-L and VD-L	COMPAIR
ATLAS COPCO	WORTHINGTON
HYDROVANE	ISO 6743/3 (DAC and DAJ)

> Refrigeration compresor oil



CEPSA BOREAL

This highly refined naphthenic mineral oil ensures an optimum performance in refrigerating installations, extending the compressor's useful life. It avoids the formation and deposit of crystalline products in the cooling circuit. It is a product with optimal chemical stability and excellent fluidity at high temperatures.

Specifically recommended for lubricating Refrigeration Compressors that use traditional coolants, ammonia, carbon dioxide, freón12 and R22. The operation and design of refrigeration compressors, whose aim is to generate low temperatures (for example to store food), demand very specific oils like CEPSA Boreal.

Available in ISO grades: 68 **Quality levels:**

DIN 51503 KA and KC



→ Alkben compressor oils

SYNTHETIC >



CEPSA NORTHER AB

Cepsa Norther AB is an alkylbenzene-based synthetic oil. It is a very high quality product with better solubility with coolants than mineral oils. This lubricant's properties help to avoid common problems involving the separation of oil, freezing in valves and heat transfer surfaces of the coolant system.

The synthetic nature of the lubricant provide excellent chemical and thermal stability, avoiding any deterioration of the oil.

Suitable for lubricating refrigeration compressor using fluids HCFC (R-22) and CFC (R-502/R-12).

Available in ISO grades: 100 **Quality levels:**

> Complies with manufacturer levels: APV, BITZER, BOCK, SABROE, YORK, BAUER, CIRRUS, SAUER & SOHN...

ISO 6743/3 DRE

> Polyol ester coolants



SYNTHETIC >

CEPSA NORTHER HFC

Cepsa Norther HFC is a synthetic lubricant oil based on synthesized polyol esters and an exclusive package of additives to guarantee good protection against rust. This product offers excellent thermal, chemical and hydrolytic stability. It improves the efficiency of the cooling equipment, reducing maintenance costs and providing good lubrication and good oil separation properties. It behaves excellently at high temperatures in the presence of water and metal components.

It is designed to lubricate refrigeration compressor using ozone-friendly HFC type coolants.

Available in ISO grades: 32 and 68 Quality levels:

Complies with manufacturer levels:
AERZEN, BOCK, CARRIER, FRASCOLD, GRAM, GRASSO, HOWDEN, J&E HALL,
MACQUAY, SABROE, SULZER, TECUMSEH, YORK...

ISO 6743/3: DRD



> Gas



CEPSA COMPRESORES LPG - 9

▼SYNTHETIC

Cepsa Compresores LPG - 9 is a synthetic lubricant especially developed to lubricate gas compressors, in which gears and bearings operate in a gas atmosphere type: butane, propane, methane, ethylene, ammonium and vinyl chloride. Its high viscosity index allows it to operate in a wide range of temperatures.

Quality levels:

SULZER BURCKHARDT A.G. in compressors type K

LINDE A.G.



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TURBINE AND CIRCULATING OIL

OF

CEPSA HD TURBINAS *

Cepsa HD Turbinas * is a lubricant oil formulated with highly-refined and hydrotreated paraffin bases and high quality additives conferring outstanding properties for use in multiple applications. They afford excellent protection and lubrication for turbine components. They have a high anti-rust power, high chemical and thermal stability and great venting speed.

Specifically recommended for steam, gas and hydraulic turbines where long service life and high oxidation stability are required.

Available in ISO grades: 32, 46 and 68 Quality levels:

ISO 6743-5 L TSA/TGA/TGB	DIN 51515 Part II (L-TG)	ASTM D 4304 (Type I)
ALSTOM HTGD 90 117 (no EP)	GENERAL ELECTRIC GEK 107395A	GENERAL ELECTRIC GEK 32568H
SIEMENS TLV 901304/901305 (no EP)	British Standard 489 (CIGRE)	MIL-L-17672 D
JIS K 2213	CEGB Standard 207001	AIST 120, 126
FIVES CINCINNATI P-Specs	GENERAL ELECTRIC GEK 46506E	MAN Turbo-TED 10000494596
CIEMENS MAT 912101/02		

SIEMENS MAT 812101/02





CEPSA CIRCULANTE

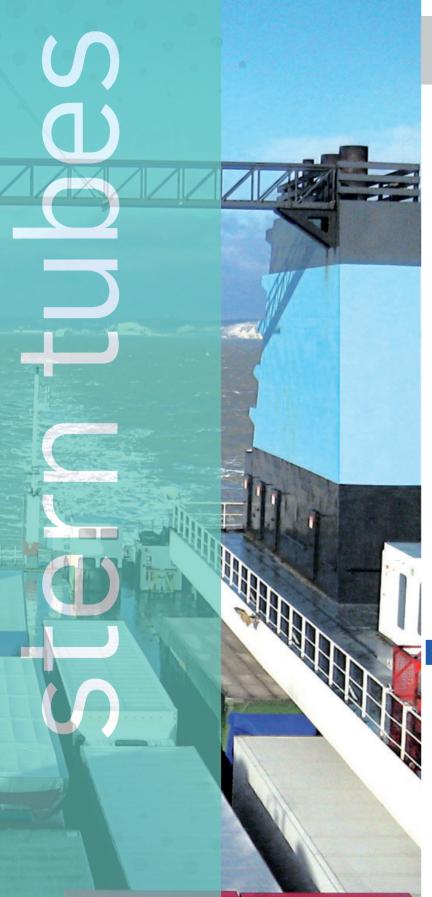
Cepsa Circulante is a high quality, universal use lubricant oil formulated with paraffin bases and specific additives to ensure the product has the necessary properties for its multiple applications. It is a product with a long useful life, which is anti-rust and anti-corrosion, resists oxidation and has good thermal and chemical stability, covering a wide range of operating temperatures.

Available in ISO grades: 100, 150, 220, 320 and 460

Quality levels:

DIN 51524 Part 1 (HL)	ISO 6743-2 FC
DIN 51517 (CL)	

STERN TUBE OIL





CEPSA STERNA

Highly viscous, high-performance lubricant oil. It guickly emulsifies with sea water maintaining stable emulsion, sealing properties and excellent lubrication. Thus protecting critical surfaces of the stern tube from corrosion, even during long periods of time in severe operating conditions.

Particularly recommended for stern tube bearings/closures, where emulsifying lubricants are necessary. Developed especially to lubricate Cedervall type stern tubes installed in vessels and for certain fin stabilizer bearings installed in passenger's vessels.



SYNTHETIC >



CEPSA STERNA BIO





Synthetic EAL hydraulic fluid (Environmentally-Friendly Lubricant) especially developed for vessel stern tubes. Also designed for any application where a VGP legislation compliant biodegradable product is required. It has excellent rust-proof anti-corrosion properties and a high natural viscosity index that remains stable over time. It can operate at a wide range of temperatures.

Particularly recommended when there is a risk of water contamination in hydraulic systems that function in severe operating conditions.

Compatibility with the joints used in hydraulic circuits (Viton, Perbunan, nitrile NBR, Neoprene, silicon, etc.).



OTHER APPLICATIONS





Mineral lubricating oil with protective properties, especially designed for supercharged diesel engines undergoing tests and run-in periods, in which engine must go through long periods of time without operation, stored or which need to provide intermittent service for a long period of time.

It has high detergent/dispersant power. It protects against rust, corrosion and oxidation, maintaining all parts within the engine in optimum protection conditions during long periods of downtime.

Available in SAE grades: 30 Quality levels:

MIL-L-21260E	API CG-4	MTU Oil Type 1°
MB 228.1	VOLVO VDS	MACK EO-M
ACEA E-2 98	MAN 271	





CEPSA DIATERMO

This oil is formulated with highly refined paraffin base oils and special additivation which produces a high-performing, very stable product that resists high temperatures.

It reduces energy required/wears since it decreases the losses. It also keeps heat transfer systems free from deposits, allowing long periods between changes.

Especially indicated for heat transfer in closed circulation systems, at boundary layer temperatures of up to 315 $^{\circ}$ C.

Available in ISO grade: 32



CEPSA DESENGRASANTE MARINO

Product formulated using high purity aliphatic diluents and selected surfactants, designed for use in cleaning metal surfaces of tanks, decks, machinery and Vessel's bilges.

It has excellent emulsifying-dispersant efficacy and a high level of detergent to ensure effective cleaning.



CEPSA BROCA 3

Oil formulated with highly refined paraffin bases and special additivation which provides excellent properties. Particularly recommended to reduce wear in compressed air engines and moving parts of pneumatic tools.

It ensures maximum protection against wear and rust. Its outstanding fluidity at low temperatures ensures the perfect equipment functionning.

Available in ISO grade: 100

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GREASES



CEPSA ARGA WR EP

Calcium-lithium grease offering high film tenacity and strengthened lubrication, with excellent properties to repel water and with EP properties.

Recommended to lubricate ball and roller bearings subjected to heavy loads and slow speeds, open gears, cables, etc. Particularly recommended for deck machinery, fishing boats and dredgers, where a highly resistant to washing by water grease is required.

Temperature range: -20 to 150 °C Consistency (NLGI) grade: 2



CEPSA ARGA COMPLEX LITIO EP

Multipurpose lithium complex soap grease for marine applications, with high EP properties and a great resistance to water.

Recommended for lubricating small and medium size bearings, subjected to light or medium loads, in a wide range of temperatures.

Temperature range: -30 to 150 °C Consistency (NLGI) grade: 2.5

> SKF V2F A 500 and SKF V2F A 500 and 1000 rpm 1000 rpm

SKF R2F TEST B (150 °C)



CEPSA ARGA EP SPECIAL

Universal lithium soap grease with EP extreme pressure additives. These additives offer good protection against rust, corrosion, oxidation and wear. They are highly resistant to damp and practically insoluble in water.

This grease is particularly recommended for lubricating flat bearings, balls and rollers and in general mechanisms subject to high loads, where protection against wear and high lubricating performance are needed.

Temperature range: -20 to 130 °C Consistency (NLGI) grade: 0, 1 and 2





CEPSA ARGA BIOGREASE 2



Especially designed for applications where biodegradability is required. It is formulated from a natural ester, lithium soap and a selection of antioxidant, anti-corrosion and extreme pressure additives of very limited environmental impact.

This grease has excellent anti-wear and extreme pressure lubricating qualities. It has high resistance to hydrocarbons and outstanding anti-corrosive properties, making it the perfect product for marine use.

Temperature range: -30 to 130 °C Consistency (NLGI) grade: 2

DIN 51502: OGFPE2K-30 **Swedish Standard** EAL grease for SS 155470 compliance with VGP



CEPSA ARGA FORCE





CEPSA ARGA SYNT

Super-sealant, corrosion-resistant semi-synthetic grease. It incorporates solid lubricants and other additives especially designed to provide total stability in the event of the highest pressures and loads. The grease contains no harmful compounds to the environment.

Formulation designed for pulling ropes of vessels, fishing boats, tugs and open gears. Improves operating conditions and enables the run-in and settling of surfaces by plastic deformation of the metal, resulting in lower wears, lack of pitting, seizure and a quieter function.

Temperature range: -25 to 120 °C Consistency (NLGI) grade: Fluid

Synthetic marine grease that combines the exclusive characteristics of a synthetic PAO type lithium complex thickener. it contains antioxidants, corrosion inhibitors and EP/AW additives, offering excellent protection against wear at both high and low temperatures.

It is recommended for prolonged performance in almost all grease applications required in vessel's equipment. It offers high protection against wear, oxidation and corrosion as well as protection particularly recommended for bearings supporting heavy loads at moderate speeds.

Temperature range: -40 to 200 °C Consistency (NLGI) grade: 1,5

>> SIGPAT

The SIGPAT program is an advanced analysis system to control the regular conditions of marine lubricants in operation and obtain a decisive contribution to the profitability and maintenance of the various equipment items installed in the vessels.

It offers quick, precise and detailed diagnoses as well as practical recommendations on how to optimize equipment maintenance and prevention from potential failures in such by taking regular samples and thereafter analyzing them in **our Research Center**.





For all these reasons, SIGPAT presents itself as an effective tool to help with management and maintenance, facilitating the management of lubricants and equipments in order to:

- determine in advance the best time to change oil in service.
- rapidly detect possible failures, contamination and anomalies that shorten the life and availability of equipment.
- optimize oil change periods.
- regularly assess the performance and efficiency of lubricants and equipment.







To access the SIGPAT program:

Submit a request by means of the on-line form available from www.cepsa.com. Or contact us at st.lubes@cepsa.com or call our Technical Assistance Department for Marine Lubricants, via the switchboard, on 913 376 000.



Table summarizing technical characteristics ·

		(G/L)	y at St)	y at (cSt)	Viscosity Index	(°C)	bility	=	(<u>g</u> /	_
PRODUCT "\"	Grade ISO/SAE	Density 15 °C (KG/L)	Viscosity at 40 °C (cSt)	Viscosity at 100 °C (cSt)	Viscosit	Freezing (°C)	Flammability (°C)	Emulsion	TBN (mgKOH/g)	Sulfated ash (%)
CEPSA GAVIA 7050	50	0.939	222	20.0	95	-18	>220	_	70	_
CEPSA GAVIA 2550	50	0.901	220	20.0	95	-9	>220	_	25	_
CEPSA CICONIA 30	30	0.894	110	12.0	95	-6	>220	-	5.8	-
CEPSA LARUS 3030	30	0.907	100	11.5	102	-6	>220	-	30	3.70%
CEPSA LARUS 3040	40	0.911	144	14.5	100	-6	>220	-	30	3.80%
CEPSA LARUS 4040	40	0.915	140	14.5	102	-6	>220	-	40	4.80%
CEPSA LARUS 5040	40	0.921	137	14.5	102	-6	>220	-	50	5.8%
CEPSA PETREL 1530	30	0.897	94	11.0	100	-15	>220	-	15	1.73%
CEPSA PETREL 1540	40	0.903	139	14.5	100	-15	>220	-	15	1.73%
CEPSA PETREL HDL 40	40	0.902	138	14.5	100	-15	>220		15	1.30%
CEPSA ULTRAMAR SHPD 15W40	15W-40	0.883	105	14.5	140	-27	>220	-	16	1.30%
CEPSA MAR SHPD 15W40	15W-40	0.888	108	14.5	136	-27	>220	-	9	1.18%
CEPSA MISTRAL 32	32	0.874	32	5.5	100	-24	>200	-	-	-
CEPSA MISTRAL 46	46	0.878	46	6.8	100	-21	>200	-	-	-
CEPSA MISTRAL 68	68	0.883	68	8.7	98	-18	>200	-	-	-
CEPSA MISTRAL HX 32	32	0.871	32	6.3	150	-36	>200	-		
CEPSA MISTRAL HX 46	46	0.877	46	8.4	150	-36	>200	-	-	-
CEPSA MISTRAL HX 68	68	0.885	68	10.9	150	-30	>200	-	-	-
CEPSA MISTRAL HX 100	100	0.887	100	13.6	140	-30	>200	-	-	-
CEPSA MISTRAL HX 150	150	0.897	150	16.5	120	-30	>200	-	-	-
CEPSA BIO OIL HM-S 32	32	0.913	32	7.3	195	-39	>260	-	-	-
CEPSA BIO OIL HM-S 46	46	0.920	46	9.5	183	-39	>260	-	-	-
CEPSA BIO OIL HM-S 68	68	0.935	68	12.7	180	-42	>260	-	-	-
CEPSA RADA XMP 68	68	0.886	68	8.6	100	-18	>200	-	-	-
CEPSA RADA XMP 100	100	0.890	100	11.2	100	-18	>200	-	-	-
CEPSA RADA XMP 150	150	0.895	150	14.9	98	-18	>215	-	-	-
CEPSA RADA XMP 220	220	0.899	220	18.5	96	-15	>220	-	-	-
CEPSA RADA XMP 320	320	0.904	320	23.9	96	-18	>220	-	-	-
CEPSA RADA XMP 460	460	0.908	460	30.2	95	-12	>225	-	-	-
CEPSA ENGRANAJES HPX 150	150	0.849	150	20.8	150	-30	>220	-	-	-
CEPSA ENGRANAJES HPX 220	220	0.857	220	25.3	150	-30	>220	-	-	-
CEPSA ENGRANAJES HPX 320	320	0.858	320	34.3	150	-20	>220	-	-	-
CEPSA ENGRANAJES HPX 460	460	0.853	460	46.1	150	-18	>225	-	-	-



PRODUCT ""	Grade ISO/SAE	Density 15°C (KG/L)	Viscosity at 40 °C (cSt)	Viscosity at 100 °C (cSt)	Viscosity Index	Freezing (°C)	Flammability (°C)	Emulsion	TBN (mgKOH/g)	Sulfated ash (%)
CEPSA COMPRESORES AR 46	46	0.862	46	6.8	95	-9	>220	_		
CEPSA COMPRESORES AR 68	68	0.864	68	8.9	95	-9	>220	_	_	_
CEPSA COMPRESORES AR 100	100	0.864	100	11.6	95	-9	>220	_	_	_
CEPSA COMPRESORES ES 100	100	0.960	100	11.4	90	-30	>260	_	_	_
CEPSA COMPRESORES ARS 46	46	0.842	46	7.75	145	-42	>220	_	_	_
CEPSA COMPRESORES ARS 68	68	0.836	68	10.6	145	-42	>220	_	-	_
CEI SA GOINI NEGOTIES ANG CO	00	0.000	00	10.0	140	72	<i>>220</i>			
CEPSA BOREAL 68	68	0.916	55	5.9	100	-36	179	_	_	-
CEPSA NORTHER AB 100	100	0.874	104	8.1	-	-24	>200	_	_	_
OLI CA HORITICH AD 100	100	0.07 4	104	0.1		2-7	>200			
CEPSA COMPRESORES LPG-9	-	1.050	185	35	210	-36	280	_	_	_
CEPSA NORTHER HFC 32	32	0.981	32	6.0	135	-45	250	_	_	-
CEPSA NORTHER HFC 68	68	0.971	68	9.1	110	-33	250	_	_	_
	00	0.07		0.1	1.10		200			
CEPSA HD TURBINAS * 32	32	0.859	32	5.4	98	-9	>200	3ml (30 m	in)	-
CEPSA HD TURBINAS * 46	46	0.863	46	6.9	98	-9	>200	3ml (30 m	,	_
HD TURBINAS * 68	68	0.864	68	8.4	98	-6	>200	3ml (30 m		_
		0.001		0.1			, 200	01111 (00 111	,	
CEPSA CIRCULANTE 100	100	0.887	100	10.8	98	-12	>210	3ml (30 m	nin)	-
CEPSA CIRCULANTE 150	150	0.895	150	14.7	98	-9	>210	3ml (30 m		_
CEPSA CIRCULANTE 220	220	0.898	220	18.9	98	-6	>210	3ml (30 m		_
CIRCULANTE 320	320	0.902	320	23.4	98	-6	>210	3ml (30 m		_
CIRCULANTE 460	460	0.907	460	29.0	95	-6	>210	3ml (60 m		_
UNIOULANTE 400	400	0.307	400	23.0	95	-0	/210	3111 (00 11	'''' '	
CEPSA STERNA	_	0.908	370	24.0	96	10	246	_	_	_
CEPSA STERNA BIO	100	0.937	100	18.1	202	-30	>300	_	_	_
or or oreman blo	100	0.007	100	10.1	202	00	2000			
CEPSA RODAJE Y PROTEC. SAE 30	00	0.893		11.8	95	-18	220	_	_	_
	30									
CEPSA DIATERMO 32	30 32		32.5		105		>200	_	_	_
CEPSA DIATERMO 32 CEPSA DESENGRASANTE MARINO	30 32 -	0.874 0.782	32.5 2.2	5.3 0.97	105	-12 -15	>200 100	-	-	-

PRODUCT ""
CEPSA ARGA COMPLEX LITIO EP
CEPSA ARGA WR EP
<u> </u>
CEPSA ARGA EP ESPECIAL
CEPSA ARGA BIOGREASE 2
CEPSA ARGA SYNT
CEPSA ARGA FORCE

NGL grade	Drop point
2.5	>260
2	>180
0.1 and 2	>180
2	>260
1,5	>260
Fluid	-
	2.5 2 0.1 and 2 2 1,5

se	with	lithium	complex	soan.	FP	additives	and o	area	t re
						rocictont	,		

Grease with lithium complex soap, EP additives and great resistance to water. Grease with calcium and lithium soap, resistant to water. Recommended for deck machinery.

Grease formulated with calcium and lithium complex soap, with EP additive (>90%).

Grease with EP additive formulated with natural ester and lithium soap.

Synthetic grease that combines the excellent characteristics of the PAO base and the lithium complex thickener.

Synthetic grease made with aluminum complex, recommended for its adherence for cables and open gears. Includes solid lubricants (graphite).

Guide to marine lubricants



1 MAIN ENGINE	LARUS (HF0) / PETREL (MD0) / CICONIA / GAVIA
2 MAIN ENGINE TURBO COMPRESSOR	TURBINAS HD / COMPRESORES ARS (Synt.)
3 MAIN ENGINE REGULATOR	TURBINAS HD / COMPRESORES ARS (Synt.)
4 MAIN ENGINE REDUCER	RADA XMP
5 TURNING-AXLE LINE	CIRCULANTE
6 VARIABLE WEIGHT HELIX	MISTRAL HX
7 STERN TUBE	STERNA / STERNA BIO 🏈 🕍
8 AUXILIARY ENGINES	ULTRAMAR SHPD / MAR SHPD / PETREL
9 AUXILIARY ENGINE ALTERNATORS	TURBINAS HD (Oil) / ARGA COMPLEX LITIO EP (Grease)
10 AIR COMPRESSORS	COMPRESORES AR / COMPRESORES ES (Sint.) / COMPRESORES ARS (Sint.)
11 PURIFIERS	RADA XMP / ENGRANAJES HPX (Sint.)
12 MISC. SERVICE PUMPS	MISTRAL HX (Oil) / ARGA COMPLEX LITIO EP (Grease)
13 ELECTRIC MOTORS	ARGA COMPLEX LITIO EP (Grease)
14 REFRIGERATING COMPRESSORS	BOREAL / NORTHER AB (Synt.) / NORTHER HFC (Synt.)
15 SERVOMOTOR - RUDDER STOCK	MICTORI LIV / ADCA COMDI EV LITIO ED (C. rocco) / ADCA DIOCDEACE 2 (C. rocco)
	MISTRAL HX / ARGA COMPLEX LITIO EP (Grease) / ARGA BIOGREASE 2 (Grease)
16 WINDLASSES - CLIPPERS	RADA XMP / ARGA WR EP (Grease) / MISTRAL HX
17 HYDRAULIC UNIT	MISTRAL HX / BIO OIL HMS 🏈 🟭
18 HYDRAULIC CRANES	MISTRAL HX / ARGA COMPLEX LITIO EP (Grease) / ARGA FORCE (Grease)
19 HYDRAULIC FISHING MACHINERY	MISTRAL HX
20 LIFEBOAT AND FIRE-FIGHTING BOAT EQUIPMENT	MISTRAL HX
21 DIESEL ENGINE BOAT	ULTRAMAR SHPD / MAR SHPD
EMEDICENCY AND EIDE EIGHTING HAUT	ULTRAMAR SHPD / MAR SHPD
EMERGENCY AND FIRE-FIGHTING UNIT	
23 MANEUVERING TRUST	MISTRAL HX / RADA XMP
24 AUXILIARY BOAT ENGINE - SKIFF	ULTRAMAR SHPD / MAR SHPD
25 DECK MACHINERY PROTECTION AND CABLES	ARGA FORCE (Grease)
26 THERMAL CIRCUIT	DIATERMO

