

## MARINE LUBRICANTS

## CEPSA MISTRAL HX

### DESCRIPTION

A range of latest-generation lubricating oils with a high viscosity index, formulated with highly refined paraffin bases and selected additives providing excellent anti-wear properties and special characteristics dealing with thermal decomposition and oxidation.

It includes a Viscosity Index Enhancer that is highly stable to shear and compatible with the filters of modern hydraulic systems.

#### PRODUCT APPLICATION

- Especially recommended in hydraulic circuits of demanding marine equipment where HVLP type hydraulic fluids that have special antioxidant characteristics and excellent resistance to temperature changes are required.
- Specifically suitable for circuit applications that contain servo valves.
- It is recommended for systems with wide temperature variations due to its high Viscosity Index and shear stability.
- It is suitable for hydrostatic systems with maximum pressure and temperature requirements thanks to its excellent characteristics.

#### PRODUCT PERFORMANCE

- Great demulsibility power. Rapid water separation.
- Good resistance against foam formation. Rapid venting.
- High anti-wear capacity.
- High hydrolytic stability against contamination due to ambient humidity or humidity from cooling circuits.
- High protection against corrosion and rust.
- Excellent thermal and oxidation stability.
- Excellent filterability results, with or without humidity contamination.
- Excellent performance in relation to seals and elastomers.

### SPECIFICATIONS

- DIN 51524 Part 3 HVLP
- ISO FILTERABILITY (Dry&Wet)
- BOSCH-REXROTH 90220 (ISO 32, 46, 68)
- ISO 11158 HV
- DENISON FILTERABILITY
- EATON Brochure 03-401-2012
- AFNOR NF-E 48-603 HV
- PARKER DENISON HF-0, HF-1, HF-2
- FIVES CINCINNATI P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46)

### TYPICAL CHARACTERISTICS

CHARACTERISTIC	UNITS	STANDARD	CEPSA MISTRAL HX				
			32	46	68	100	150
ISO GRADE			32	46	68	100	150
Density at 15°C	Kg/l	ASTM D-4052	0.871	0.877	0.885	0.887	0.894
Flash point, V/A	°C	ASTM D-92	>200	>200	>200	>200	>200
Freezing point	°C	ASTM D-5950	-48	-39	-36	-36	-30
Viscosity at 40°C	cSt	ASTM D-445	31.4	47.4	68.2	96.9	143.8
Viscosity at 100°C	cSt	ASTM D-445	6.3	8.4	10.9	13.6	16.5
Viscosity index	-	ASTM D-2270	157	154	151	141	123
Copper corrosion 3h, 100°C	-	ASTM D-130	1B	1B	1B	1B	1B
Rust Characteristics	-	ASTM D-665B	pass	pass	pass	pass	pass

### HEALTH & SAFETY AND ENVIRONMENT

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product in accordance with the applicable legislation.