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TECHNICAL PRODUCT SHEET

HYDRAULIC ZF/XP ISO 46

DESCRIPTION

HYDRAULIC ZF/XP is a high-performance hydraulic fluid consisting of superior quality severely hydrotreated base oils and a premium, zinc-added, anti-wear package, intended to provide for enhanced protection and performance in either low or high pressure hydraulic systems where ISO 6743 (ISO-L-HLP) or/and ISO 11158 (HM) class hydraulic lubricants are recommended.

APPLICATIONS

HYDRAULIC ZF/XP is suitable for use in industrial (e.g. in casting, forging, mining/quarrying, cement/lime/gypsum, construction applications, etc.) and marine hydraulic systems or/and mobile hydraulic fluid power transmission systems, e.g. excavators or cranes.
It has been specifically designed to satisfy the increasing performance requirements of most modern fixed/mobile hydraulic systems and industrial pumps well into the future and to surpass the stringiest OEM specifications, such as Bosch Rexroth RE 90235 (Rating List RDE 90245) and industry's reference testing, such as in Eaton 35VQ25 (Eaton ATS-373) and Parker Denison T6H20C (dry/wet) high pressure vane pumps.

SPECIFICATIONS

DIN	51524 Part 2 HLP	Fives Cincinnati	P-70
ISO	6743-4 (ISO-L-HM)	AFNOR NFE	48-603 HM
ISO	11158 HM	SS	155434:2015
Bosch Rexroth	RE 90235	SEB	181222
Parker (Denison)	HF-0, HF-1, HF-2	JCMAS	HK P041
Danfoss (Eaton)	Brochure 03-401-2010	GM	LS-2
Danfoss (Eaton)	E-FDGN-TB002	Danielli	0.000.001 Type 10 & 11
Eaton Vickers	I-286-S & M-2950-S	CS	GB 11118.1 L-HL & L-HM
ASTM	D6258 HM	U.S. Steel	126
SAE	MS1004	ZF	TE-ML 07H, 21M

PROPERTIES

HYDRAULICZF/XP delivers superior resistance to thermal and chemical breakdown, ensuring long service life even under severe operating conditions. Its advanced formulation minimizes sludge and deposit formation, keeping systems clean and operating efficiently. The lubricant demonstrates excellent performance in the presence of moisture, providing reliable protection without loss of functionality. In addition, it offers outstanding filterability, rapid water separation, fast air release, and excellent antifoaming characteristics, supporting smooth and trouble-free operation. Excellent extreme pressure (EP) performance ensures reliable protection of components under high loads, reducing wear and extending equipment life.

LPC S.A. 124 Megaridos Ave., Aspropyrgos
19300, Greece (+30) 210 80 93 900

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BENEFITS

HYDRAULIC ZF/XP is engineered to support extended maintenance intervals, reducing downtime and overall operating costs. It promotes enhanced system cleanliness and reliable performance, contributing to consistent operation over prolonged service periods. By effectively reducing the risk of corrosion and rust, the product helps protect critical components and extends equipment life. These attributes combine to deliver excellent overall system operational efficiency, while outstanding wear protection ensures dependable performance even under demanding operating conditions.

PHYSICAL-CHEMICAL CHARACTERISTICS

HYDRAULIC ZF/XP	METHOD	ISO 46
Density at 15°C, g/cm^3	ASTM D4052	0.865
Viscosity, Kinematic (cSt) 40°C	ASTM D445	46
Viscosity, Kinematic (cSt) 100°C	ASTM D445	6.9
Viscosity index	ASTM D2270	105
Flash point, COC, °C	ASTM D92	230
Pour point, °C	ASTM D97	-30
Copper corrosion	ASTM D 130	1a
Foam Tendency / Stability, ml Sequence I Sequence II Sequence III	ASTM D892	 20 / 0 20 / 0 20 / 0
Demulsibility, min.	ASTM D1401	10
Air release, min	ASTM D3427	3.8

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.

HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).

USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

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