



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

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PRODUCT DATA SHEET

XHVI ZF HYDRAULIC OILS 15 - 100

PRODUCT DESCRIPTION

XHVI ZF Hydraulic Oils are specialised premium zinc free hydraulic fluids which have been formulated to handle the extremes of operating temperatures, pressures, power densities and fluid flow rates which are associated with very high horsepower hydraulic systems. These oils provide unique, long life operating service characteristics by a combination of anti-wear, detergent and very shear stable viscosity improving additives with proven rust, oxidation, corrosion and foam inhibitors. **XHVI ZF Hydraulic Oils** ensure excellent filterability with hydrolytic and demulsibility stability.

BENEFITS

The anti-wear additives in **XHVI ZF Hydraulic Oils** ensure special protection where inherently high pressures, power densities and temperatures are experienced with high horsepower hydraulic pumps operating at pressures up to 48,000 kPa (7000 psi). These oils allow hydraulic systems to provide long, trouble-free service when operating with this increased horse-power, increased temperatures, reduced oil reservoir volumes and resultant reduced de-aeration times.

XHVI ZF Hydraulic Oils possess excellent filterability even in the presence of moisture contamination; whereas other lubricants may have deposition products (formed as a result of hydrolytic instability particularly with non-ferrous hydraulic components) which plug filter systems leading to pump starvation, cavitation and ultimately premature equipment wear and failure.

XHVI ZF Hydraulic Oils are multi-grade oils which have smaller viscosity changes with temperature variations than the more conventional fluids. At the very high operating temperatures experienced in high horsepower hydraulic systems, this property results in improved full-bodied, wear reducing, lubricant films compared to the thinned-out fluidity of the more conventional hydraulic fluids. This special viscosity control property is maintained by the very shear stable viscosity improver (VI) incorporated in **XHVI ZF Hydraulic Oils**, when other lesser VIs would shear down to less wear-protecting thinned-out fluids shortening the life of the hydraulic equipment.

The high aniline point of **XHVI ZF Hydraulic Oils** ensures excellent compatibility with synthetic rubbers, providing extended life to seals.

The powerful oxidation inhibitors of **XHVI ZF Hydraulic Oils** reduce oxidation so that oil degradation is inhibited, thereby reducing the corrosion related problems of shortened hydraulic fluid life, erratic control valve operation, filter plugging and down time, etc.

The anti-foam additive in **XHVI ZF Hydraulic Oils** ensures any entrained air will quickly separate from the fluids so that wear producing metal-to-metal contact is avoided.

XHVI ZF Hydraulic Oils have multi-metal compatibility with the ability to control wear and corrosion of copper and aluminium alloys used in high performance pumps. Corrosion inhibitors and metal passivators formulated in these fluids prevent corrosion of steels and the previously mentioned more easily attacked metals in severe operating service conditions. **XHVI ZF Hydraulic Oils** are recommended for use with silver components as found in Lucas PM pumps and are suitable for circulating systems, bearings, general purpose lubrication and enclosed gear sets.



AUSTRALIAN FAMILY OWNED SINCE 1989





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SPECIFICATIONS

XHVI ZF Hydraulic Oils meet or exceed the requirements of many international tests and specifications for industrial and mobile hydraulic systems including:

AFNOR NFE 48 603 (HM, HV)
SEB 181 222
Denison HF-1, HF-2, HF-0
Cincinnati Milacron P-68, P-69, P70
DIN 51524, Part 2 and 3 (HVLP)
SEB 181 222

SS 155434
ISO 11158 (HM, HV)
ISO 6743/4 (HM, HV)
US Steel 126, 127, 136
GM LS-02
Other commercial hydraulics.

Hi-Tec Oils suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.

TYPICAL PROPERTIES

Property	ASTM Method	Typical Results					
		15	22	32	46	68	100
ISO Viscosity Grade		15	22	32	46	68	100
Item code (HI5-)		2749	2750	2759	2762	2764	2766
Density (kg/Lt) @ 15°C	D-1298	0.838	0.841	0.869	0.863	0.871	0.875
Viscosity (cSt) @ 40°C	D-445	15	22	32	46	68	100
@ 100°C	D-445	3.8	4.88	6.38	8.4	11	14.8
Viscosity Index	D-2270	151	150	156	161	153	154
Flash Point, COC (°C)	D-92	198	201	207	215	228	229
Pour Point (°C)	D-97	-36	-36	-36	-36	-36	-33
Colour	D-1500	1	1	1	1	1	1
Foaming Characteristics - All Sequences after Settling	D-892	Nil	Nil	Nil	Nil	Nil	Nil
Oxidation Characteristics - Hours to TAN 2.0	D-943	2068	2068	2068	2068	2068	2068
Rust Prevention, Salt Water - After 48 hours	D-665B	Pass	Pass	Pass	Pass	Pass	Pass
Sulphated Ash (% wt)	D-874	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hydrolytic Stability	D-2619	Pass	Pass	Pass	Pass	Pass	Pass
FZG Gear Load, Stages Passed	DIN 51354/2	11	11	11	11	11	11

Available in: Bulk, 1000 Litres, 200 Litres and 20 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

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