



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

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PRODUCT DATA SHEET

HYDRAULIC XHVI 37

PRODUCT DESCRIPTION

HYDRAULIC XHVI 37 is a premium hydraulic fluid formulated to handle the extremes of operating temperatures, pressures, power densities and fluid flow rates which are associated with very high horsepower hydraulic systems. The oil provides 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. **HYDRAULIC XHVI 37** ensures excellent filterability with hydrolytic and demulsibility stability. It is particularly developed for use in the hydraulic systems of Liebherr Cranes.

BENEFITS

The anti-wear additives in **HYDRAULIC XHVI 37** ensure special protection where inherently high pressures, power densities and temperatures are experienced with high horsepower hydraulic pumps operating at pressures up to 28,000 kPa (4000 psi). This oil allows hydraulic systems to give long, trouble-free service when operating with this increased horsepower, increased temperatures, reduced oil reservoir volumes and resultant reduced de-aeration times.

HYDRAULIC XHVI 37 possesses 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.

HYDRAULIC XHVI 37 is a multi-grade oil that has 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 **HYDRAULIC XHVI 37**, 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 **HYDRAULIC XHVI 37** ensures good compatibility with synthetic rubbers, giving extended life to seals.

The powerful oxidation inhibitors of **HYDRAULIC XHVI 37** 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, down time, etc.

The anti-foam additive in **HYDRAULIC XHVI 37** ensures any entrained air will quickly separate from the fluid so that wear producing metal-to-metal contact is avoided.

HYDRAULIC XHVI 37 has 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 this fluid prevent corrosion of steels and the previously mentioned more easily attacked metals in severe operating service conditions. While formulated with a low zinc formula, **HYDRAULIC XHVI 37** is NOT recommended for use with silver components as found in Lucas PM pumps. For these situations, use the Hi-Tec ZF range of products.



AUSTRALIAN FAMILY OWNED SINCE 1989





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SPECIFICATIONS

HYDRAULIC XHVI 37 meets the requirements specified for industrial and mobile hydraulic systems:

Vickers I-286-S, M-2950S

Denison HF-1, HF-2, HF-0

DIN 51524, Part 2 and 3

ISO 11158 (HM)

US Steel 127, 136

AFNOR N FE 48-691 (wet)

Other commercial hydraulics.

VDMA 24318

SS 155434

ISO 6743/4 (HM, HV)

SEB 181 222

AFNOR NFE 48 603 (HM, HV)

ASTM D-2619 HF-0

Hi-Tec suggests that the equipment manufacturers' recommendations should be checked prior to use.

TYPICAL PROPERTIES

Property	ASTM Method	Typical Results
ISO Viscosity Grade		37
Density (kg/Lt) @ 15°C	D-1298	0.867
Viscosity (cSt) @ 40°C	D-445	37.0
@ 100°C	D-445	7.12
Viscosity Index	D-2270	158
Flash Point COC (°C)	D-92	210
Pour Point (°C)	D-97	-36
Colour	D-1500	1.0
Foaming Characteristics - All Sequences after Settling	D-892	Nil
Oxidation Characteristics - Hours to TAN 2.0	D-943	2000
Rust Prevention, Salt Water - After 48 hours	D-665B	Pass
Shear Stability, Viscosity Loss - At 40°C after 250 cycles	DIN 51382	1.9
Zinc (% wt)	IP 308	0.029
Sulphated Ash (% wt)	D-874	0.060
Hydrolytic Stability	D-2619	Pass
FZG Gear Load, Stages Passed	DIN 51354/2	11

Available in: Bulk, 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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