



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

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# PRODUCT DATA SHEET

## XHVI HYDRAULIC OILS

### PRODUCT DESCRIPTION

**Hi-Tec XHVI HYDRAULIC OILS** are specialised premium 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. The 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. **Hi-Tec XHVI HYDRAULIC OILS** ensure excellent filterability with hydrolytic and demulsibility stability.

### BENEFITS

The anti-wear additives in **Hi-Tec XHVI 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 28,000 kPa (4000 psi). These oils allow 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.

**Hi-Tec XHVI 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.

**Hi-Tec XHVI HYDRAULIC OILS** are multigrade 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 **Hi-Tec XHVI HYDRAULIC OILS**, when other lesser VI's would shear down to less wear-protecting thinned-out fluids shortening the life of the hydraulic equipment.

The high aniline point of **Hi-Tec XHVI HYDRAULIC OILS** ensures good compatibility with synthetic rubbers, giving extended life to seals.

The powerful oxidation inhibitors of **Hi-Tec XHVI 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, down time, etc.

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

**Hi-Tec XHVI 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. While formulated with a low zinc formula, **Hi-Tec XHVI HYDRAULIC OILS** are NOT recommended for use with silver components as found in Lucas PM pumps. For these situations, use the Hi-Tec ZF range of products.

**Hi-Tec XHVI HYDRAULIC OILS** are not normally recommended as a lubricant for compressors, circulating systems, bearings, general purpose lubrication and enclosed gears where extreme high-pressure, load characteristics are not required. For these applications, use Hi-Tec Compressor Oils.



AUSTRALIAN FAMILY OWNED SINCE 1989





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## SPECIFICATIONS

Hi-Tec XHVI HYDRAULIC OILS meet the requirements specified for industrial and mobile hydraulic systems:

- Vickers I-286-S, M-2950S;
  - Denison HF-1, HF-2, HF-0;
  - Cincinnati Milacron P-68, P-69, P70;
  - DIN 51524, Part 2 and 3;
  - SEB 181 222;
  - AFNOR NFE 48 603 (HM, HV);
  - Other commercial hydraulics.
- VDMA 24318;
  - SS 155434;
  - ISO 6743/4 (HM, HV);
  - US Steel 127, 136;
  - AFNOR N FE 48-691 (wet);
  - ASTM-D2619 HF-0; and

## TYPICAL TESTS

TYPICAL TESTS	METHOD	RESULTS				
		2741	2743	2745	2747	2748
Product Code		2741	2743	2745	2747	2748
ISO Viscosity Grade		<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>	<b>150</b>
Density, Kg/Lt at 15°C	D.1298	0.869	0.863	0.871	0.875	0.894
Viscosity, cSt at 40°C	D.445	32.0	46.0	68.0	100	150
at 100°C	D.445	6.38	8.40	11.0	14.8	20.0
Viscosity Index	D.2270	156	161	153	154	154
Flash Point COC, °C	D.92	207	215	228	229	230
Pour Point, °C	D.97	-36	-36	-36	-33	-24
Colour	D.1500	1.0	1.0	1.0	1.0	1.0
Foaming Characteristics - All Sequences after Settling	D.892	Nil	Nil	Nil	Nil	Nil
Oxidation Characteristics - Hours to TAN 1.5	D.943	1500	1500	1500	1500	1500
Rust Prevention, Salt Water - After 48 hours	D.665B	Pass	Pass	Pass	Pass	Pass
Carbon Residue, Conradson % Mass	D.524	0.03	0.04	0.04	0.04	0.05
Shear Stability, Viscosity Loss - At 40°C after 250 cycles	DIN 51382	1.6	2.5	3.3	3.3	5.0
Total Acid Number	D.664	0.6	0.6	0.6	0.6	0.6
Zinc % Mass	IP 308	0.030	0.030	0.042	0.030	0.030
Sulphated Ash, % Mass	D.874	0.071	0.071	0.071	0.071	0.071
Hydrolytic Stability	D.2619	Pass	Pass	Pass	Pass	Pass
FZG Gear Load, Stages Passed	DIN 51354/2	11	12	12	12	12

"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](http://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](http://www.hi-tecoils.com.au)"

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