



ENZED® Parker Hannifin (Australia) Pty Limited ABN 89 008 446 893
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ENZED® Parker Hannifin (New Zealand) Pty Limited ABN 89 008 446 893
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PRODUCT DATA SHEET

Hydraulic XHVI 32-100

PRODUCT DESCRIPTION

Hydraulic XHVI 32-100 are specialised premium hydraulic fluids which have been formulated to handle the extreme operating temperatures, power densities, pressures 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.

BENEFITS

Hydraulic XHVI 32-100 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 **Hydraulic XHVI 32-100**.

The anti-wear additives in **Hydraulic XHVI 32-100** 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.

The high aniline point of **Hydraulic XHVI 32-100** ensures good compatibility with synthetic rubbers, giving extended life to seals. The powerful oxidation inhibitors of **Hydraulic XHVI 32-100** 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 32-100** ensures any entrained air will quickly separate from the fluids so that wear producing metal-to-metal contact is avoided.

Hydraulic XHVI 32-100 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.

Hydraulic XHVI 32-100 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, **Hydraulic XHVI 32-100** are NOT recommended for use with silver components as found in Lucas PM pumps. For these situations, use the ENZED ZF range of products.

PERFORMANCE SPECIFICATIONS

Hydraulic XHVI 32-100 meet the requirements specified for industrial and mobile hydraulic systems:

Parker Denison HF-1, HF-2, HF-0
Vickers I-286-S, M-2950S
AFNOR N FE 48-691 (wet)
SS155434
ISO 6743/4 (HM, HV)

Commercial Hydraulics
AFNOR NFE 48 603 (HM, HV)
Cincinnati Milacron P-68, P-69, P70
DIN 51524, Parts 2 and 3





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TYPICAL PROPERTIES

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

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

Product Code: EZ5-2741, 2743, 2745 and 2747

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided in written contract, the products are sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular purposes".

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