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PRODUCT DATA SHEET

ZF HYDRAULIC OILS 32, 46, 68, 100

PRODUCT DESCRIPTION

Hi-Tec ZF Hydraulic Oils are Zinc Free, Ashless, Anti-Wear lubricants blended from high quality mineral oils possessing a high viscosity index and low pour point. These lubricants give a long trouble free service life and will be chemically stable under severe operating conditions. They give excellent protection against corrosion, resisting emulsification and any formation of unwanted stable foam.

The continuing trend towards higher hydraulic system pressure permits higher performance and reductions in pump and equipment sizes. At the same time, the hard working hydraulic oil is called upon to lubricate, seal and cool the working components under increasing temperature, turbulence and pressure. The continuing need to maintain performance over extended service intervals requires that the specification of additive systems also continues to advance.

Hi-Tec ZF Hydraulic Oils are formulated to meet all these requirements, using paraffinic, high viscosity index mineral oil, augmented with performance additives including a special ashless multifunctional oxidation, rust and wear inhibiting additive package.

BENEFITS

The performance benefits of this formulation include:

- Superior thermal and hydrolytic stability
- Very high oxidation stability
- Good demulsibility and anti-foam properties
- High load carrying capacity - excellent EP performance
- Excellent corrosion protection for steel and non-ferrous metals
- Good filterability - lower tendency to block filters
- Reduced pump wear



AUSTRALIAN FAMILY OWNED SINCE 1989





PRODUCT DATA SHEET

SPECIFICATIONS

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

- ◆ Cincinnati Machine P-68, P-69, P-70
- ◆ DIN 51524, parts 1, 2 (HL, HLP)
- ◆ SEB 181 222 * Denison HF-0, HF-1, HF-2
- ◆ VDMA 24318 * Parker Hannifin France HF-0
- ◆ ISO 6743/4 (HM) * AFNOR NFE 48-603 (HM, HV)
- ◆ US Steel 126, 127 and 136 * Sperry Vickers I-286-S, M-2950-S
- ◆ SS 155434 * DIN 51506 (VBL, VCL, VDL)
- ◆ ISO/DP 6521 (DAA, DAB, DAH, DAG)
- ◆ ISO11158 (HM)

TYPICAL PROPERTY	ASTM METHOD	RESULTS				
		32	46	68	100	150
ISO Viscosity		32	46	68	100	150
Item Code		2758	2761	2763	2765	2767
Appearance	Visual	< ----- Clear, bright ----- >				
Density @ 15° Kg / L	ASTM D 1298	.865	.882	.884	.890	.900
Viscosity @ 40°C cSt	ASTM D 445	32	46	68	100	150
Viscosity @ 100°C cSt	ASTM D 445	5.5	6.9	8.9	11.4	19.6
Viscosity Index	ASTM D 2270	107	105	104	100	98
Sulfated Ash wt%	ASTM D 874	<----- Less than 0.01----->				
Copper Strip 3hr, 100C	ASTM D 130	1a	1a	1a	1a	1a
FZG Load Fail Stage	DIN 51534	12	12	12	12	12
Rust Characteristics	ASTM D 665 A, B	<----- Pass ----->				
Flash Point °C	ASTM D 92	<----- 200 ----->				
Pour Point °C	ASTM D 97	-27	-27	-27	-30	-30

"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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