



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

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PRODUCT DATA SHEET

ZF HYDRAULIC OIL 220

PRODUCT DESCRIPTION

Hi-Tec ZF Hydraulic Oil 220 is a Zinc Free, Ashless, Anti-Wear lubricant blended from high quality mineral oils possessing a high viscosity index and low pour point. This lubricant will give a long trouble free service life and will be chemically stable under severe operating conditions. It will 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 Oil 220 is 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





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SPECIFICATIONS

Hi-Tec ZF Hydraulic Oil 220 meets or exceeds the requirements of many international tests and specifications for industrial and mobile hydraulic and compressor systems including:

- ◆ DIN 51524, parts 1, 2 (HL, HLP)
- ◆ SEB 181 222
- ◆ VDMA 24318
- ◆ ISO 6743/4 (HM)
- ◆ US Steel 126, 127 and 136
- ◆ SS 155434
- * Denison HF-0, HF-1, HF-2
- * Parker Hannifin France HF-0
- * AFNOR NFE 48-603 (HM)
- * Sperry Vickers I-286-S, M-2950-S
- * ISO11158 (HM)

TYPICAL PROPERTY		ASTM METHOD	RESULTS
ISO Viscosity			220
Item code			2782
Appearance	--	Visual	Clear, bright
Density @ 15°	Kg / L	ASTM D 1298	0.900
Viscosity @ 40°C	cSt	ASTM D 445	220
Viscosity @ 100°C	cSt	ASTM D 445	19.1
Viscosity Index		ASTM D 2270	98
Sulfated Ash	wt%	ASTM D 874	Less than 0.01
Copper Strip	3hr, 100C	ASTM D 130	1a
FZG Load	Fail Stage	DIN 51534	12
Rust Characteristics		ASTM D 665 A, B	Pass
Flash Point	°C	ASTM D 92	>150
Pour Point	°C	ASTM D 97	-21

"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 for in written contract, the product is sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular use. "

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