



HYDRAULIC OILS 10 - 150

PRODUCT DESCRIPTION

Hi-Tec Hydraulic Oils are blended from high quality mineral oils possessing a high viscosity index and low pour point. These oils give a long trouble-free service life and will be chemically stable under severe operating conditions. They give excellent protection against corrosion; resist 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. Any entrained air must be readily released as pressures often exceed 7 mpa (1000 psi) and heavy pump water can only be avoided by using oils containing anti-wear additives.

Hi-Tec Hydraulic Oils are formulated to meet all these requirements, using paraffinic, high viscosity index mineral oil, augmented with performance additives including a zinc anti-wear treatment.

BENEFITS

The performance benefits of **Hi-Tec Hydraulic Oils** include:

- Superior hydrolytic stability
- Outstanding thermal and oxidation stability
- Good demulsibility and anti-foam properties
- Excellent EP performance
- Excellent rust protection
- Lower tendency to block filters
- Reduced pump wear

Oxidation, wear and corrosion tests established by Denison and Vickers are amongst the most severe in the industry and are widely recognised by other equipment manufacturers.

SPECIFICATIONS

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

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| • Vickers I-286-S, M-2950-S | • AFNOR NFE 48-603 (HM) |
| • Hagglunds-Denison HF-0, HF-1, HF-2 | • AFNOR NFE 48-691 (wet) |
| • Cincinnati Milacron P-68, P-69, P-70 | • SS155434 |
| • DIN 51524, Part 2 | • ISO 6743/4 (HM) |
| • US Steel 136, 127 | • SEB 181 222 |
| • Racine, variable volume vane pumps | • VDMA 24318 |
| • Commercial Hydraulics | |

Hi-Tec suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.

TYPICAL PROPERTIES

Property	Units	ASTM Method	Typical Results							
ISO Viscosity		-	10	15	22	32	46	68	100	150
Item code (HI5-)		-	2595	2796	2710	2712	2714	2716	2718	2720
Appearance		Visual	Clear and Bright							
Density @ 15°C	kg / L	D-1298	0.840	0.854	0.860	0.865	0.882	0.884	0.890	0.910
Viscosity @ 40°C	cSt	D-445	10	15	22	32	46	68	100	150
Viscosity @ 100°C	cSt	D-445	2.7	3.6	4.4	5.4	6.8	8.8	11.3	14.9
Viscosity Index		D-2270	111	123	105	102	102	102	99	99
Flash Point	°C	D-92	176		184		204		> 210	
Pour Point	°C	D-97	-52	-33	-33	-30	-27	-30	-30	-27