



OPUS LUBRICANTS PRODUCT DATA

ZF HYDRAULIC OILS (Ashless Grades)

Description

A high quality and fully inhibited range of Zinc Free Hydraulic Oils manufactured from a blend of mineral oils and a multipurpose ashless hydraulic oil additives covering a wide range of viscosities and suitable for Hydraulic systems where the use of Zinc Free additives is specified including silver bearings.

Performance Levels

Opus ZF Hydraulic Oils are approved to meet the following specifications.

- Denison: HF-1, HF-2, HF-O
- Vickers: 1-286-S3, M-2950-S
- Cincinnati Milacron P-68, P-69, P-70
- DIN 51524, Part 2
- Bosch Rexroth 07075, 90220

Benefits

- Excellent oxidation resistance and rust protection
- Low pour points
- Anti-foam characteristics.

Typical Data

ISO GRADE		15	32	46	68	100
Specific Gravity	@ 15°C	0.855	0.860	0.864	0.874	0.883
Kinematic Viscosity	@ 100°C cSt	3.39	5.4	6.8	8.5	11.4
	@ 40°C cSt	14.68	31.0	44.0	65.0	99.0
Viscosity Index		100	107	105	104	100
Pour Point (°C)		-40	-24	-24	-22	-20
Flash Point (°C)		170	205	216	216	247
Cleanliness Test:		NAS. 7				
FZG Gear Test, pass load		-	11	11	11	11
Rust Test:		Pass	Pass	Pass	Pass	Pass
Cleanliness Test:		NAS 7	NAS 7	NAS 7	NAS 7	NAS 7

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