



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.

- ISO 11158 HM
- ASTM D6158
- Cincinnati Milacron P-68, P-69, P-70
- DIN 51524, Part 2
- SAE MS 1004
- ISO 20763 vane pump test
- VDMA 24318

Benefits

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

Typical Data

ISO GRADE		10	15	32
Specific Gravity	@ 15°C	0.887	0.855	0.860
Kinematic Viscosity	@ 100°C cSt	3.0	3.39	5.4
	@ 40°C cSt	11.5	14.68	31.0
Viscosity Index		117	100	107
Pour Point (°C)		-36	-40	-24
Flash Point (°C)		169	170	205
FZG Gear Test, pass load		-	-	11
Rust Test:		Pass	Pass	Pass
Cleanliness Test:		NAS 7	NAS 7	NAS 7



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

Revision Date: February 2021

Ferguson & Menzies Ltd, 312 Broomloan Road, GLASGOW, G51 2JW
Tel: 0141 445 3555 E-Mail: info@fergusonmenzies.co.uk Web: www.fergusonmenzies.co.uk