



# OPUS LUBRICANTS PRODUCT DATA

## SYNOPSIS HYDRAULIC HVI 46 ZF (Ashless Grades)

### Description

A high quality and fully inhibited Synthetic, High Viscosity Index and Zinc Free Hydraulic Oil manufactured from a blend of Group 3 base oils, including a high shear polymer and a multipurpose ashless hydraulic oil additive, suitable for hydraulic systems where the use of zinc free additives is specified, including silver bearings.

### Performance Levels

- DIN 51524, Part 3
- Cincinnati Milacron P-68, P-69, P-70
- ISO 11158 HM
- ASTM D6158
- SAE MS 1004
- ISO 20763 vane pump test

### Benefits

- Excellent oxidation resistance and rust protection
- Low pour points
- Anti-foam characteristics.
- Fulfill demands of Valmet forestry equipment and are mixable with Valmet mineral delivery oil "Valmet Hydraulic Oil HM 46".

### Typical Data

ISO GRADE		46
Specific Gravity	@ 15°C	0.860
Kinematic Viscosity	@ 100°C cSt	8.50
	@ 40°C cSt	46.00
Viscosity Index		164
Pour Point (°C)		-36
Flash Point (°C)		220
Cleanliness Test:		NAS. 7
Colour		Light to Pale Amber
FZG Gear Test, pass load:		12
Rust Test:		Pass
Cleanliness Test:		NAS 7

Revised Date: February 2021

**Ferguson & Menzies Ltd**  
**312 Broomloan Road**  
**GLASGOW**  
**G51 2JW**

Tel: 0141 445 3555  
E-Mail: [info@fergusonmenzies.co.uk](mailto:info@fergusonmenzies.co.uk)  
Web: [www.fergusonmenzies.co.uk](http://www.fergusonmenzies.co.uk)