

## Product Information

# LIQUIMATIC HV10, 22, 32, 46, 68, 100

## Description

Liquimatic HV Grades are a range of high viscosity index hydraulic oils, formulated from high quality minerals oils and the latest anti-wear technology. These grades utilise a shear stable polymer that ensures that the oils do not thin down during their working life. They are ideal for hydraulic systems subjected to the very extremes of operating conditions and temperatures, from frozen food stores (-20°C) to industrial hydraulic systems at elevated temperatures and off highway equipment..

They are rust, corrosion and oxidation inhibited and will provide protection even in the presence of seawater. Excellent anti-wear and EP properties provide protection against wear in the most demanding of systems. Additionally, they are treated with an anti-foam additive to control foam and facilitate rapid air release, ensuring correct hydraulic function and meet the stringent filterability requirements of modern machines and robotics.

## Main Features

1. Outstanding low temperature performance
2. Multigrade properties, lubrication film maintained at high temperatures
3. Excellent Filterability
4. Latest anti-wear and EP technology
5. Good thermal stability

## Applications

Recommended for both Industrial and off highway hydraulic systems, where extreme operating conditions are encountered. Can also be used in hydrostatic drives, power steering systems, brake systems and other applications where products of this type and specification required.

Liquimatic HV 46 is particularly recommended for contractor's plant and machinery.

## Performance Levels

DIN 51524 Part 3 (HVLVP)  
Sperry Vickers I-286-S3, M-2950-S  
Denison HF-0 dry and wet T6C-020  
Denison HF-1, HF-2

Poclain (HV 46)  
AFNOR E48-603 (HV:HM)  
ASLE 64.1 to 64.4, 70.1 to 70.3  
CETOP RP91H

Cincinnati Milacron P-68, P-69, P-70 (HV32, HV68, HV46)

## Physical Characteristics

(TDS Liquimatic HV – 170414 Issue 9)

ISO VG	HV10	HV22	HV32	HV46	HV68	HV100
Density @ 15°C	0.848	0.880	0.864	0.868	0.874	0.885
Flash Point (closed) °C	115	160	199	199	203	200
Pour Point °C	-40	-45	-48	-42	-42	-35
Viscosity cSt at 100 °	3.8	5.1	6.76	8.93	11.66	16.1
Viscosity cSt at 40 °C	10.4	23	34.02	50.01	70.66	99
Viscosity Index	>140	>140	>155	>155	>155	>130
Vickers Pump Wear, wt loss mgs.	--	<100	<50	<50	<50	<50
FZG Gear Test, pass load	--	10	12	12	12	12
Rust Test (D-665)	Pass	Pass	Pass	Pass	Pass	Pass
Foaming Test	Pass	Pass	Pass	Pass	Pass	Pass



Certificate No. FM 21756



Certificate No. EMS 60044



Certificate No. OHS 555083

Morris Lubricants, Castle Foregate,  
Shrewsbury, Shropshire, SY1 2EL

Telephone (01743) 232200

Fax (01743) 353584