



Product Information:  
**LIQUIMATIC HV GRADES**  
**High Viscosity Index Hydraulic Oils**

**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**

- Outstanding low temperature performance
- Multigrade properties, lubrication film maintained at high temperatures
- Excellent Filterability
- Latest anti-wear and EP technology
- 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 51524-2 (HM), DIN 51524-3 (HV)  
 Eaton I-286-S3, M-2950-S  
 Parker HF-0, HF-1, HF-2  
 MAG P-68, P-69, P-70 (HV32, HV68, HV46)  
 ISO 11158 (HM, HV)  
 SAE MS 1004 (HM, HV)  
 AIST 126, 127  
 ASTM D6158

Poclain (HV 46)  
 AFNOR E48-603 (HV:HM)  
 Bosch Rexroth RE 90220  
 JCMAS PO41 HK  
 ANSI / AGMS 9005-EO2-RO  
 GM LS-2  
 SEB 181222

**Physical Characteristics**

ISO VG Grade	HV10	HV22	HV32	HV46	HV68	HV100
Appearance	Straw	Straw	Straw	Blue	Blue	Straw
Relative Density @ 15°C	0.850	0.855	0.860	0.864	0.870	0.880
Kinematic Viscosity @ 40°C (cSt)	10.21	22.68	34.11	48.84	65.90	95.61
Kinematic Viscosity @ 100°C (cSt)	3.64	5.56	6.95	8.96	11.23	14.14
Viscosity Index	>200	>190	>160	>160	>160	>150
Closed Flash Point (°C)	125	160	195	200	205	205
Pour Point (°C)	-36	-54	-50	-50	-45	-35
Vickers Pump Wear, wt loss mgs.	--	<100	<50	<50	<50	<50
FZG Gear Test, pass load	--	10	12	12	12	12
Rust Test (D665)	Pass	Pass	Pass	Pass	Pass	Pass

Figures based on average production values.

Part No.s: Liquimatic HV10:LHO025,LHO205: Liquimatic HV22: HVT025, HVT205: Liquimatic HV32: HVA025, HVA205: Liquimatic HV46: LHV005, LHV025, LHV205: Liquimatic HV68: LHS025, LHS205: Liquimatic HV100: HVO025, HVO205 (TDS Liquimatic HV Range – 170517 Issue 13)

