



Product Information:  
**LIQUIMATIC 1,2,3,4,5,6,7,8**  
**Ashless Hydraulic Oils**

**Description**

A range of high quality hydraulic oils formulated with Group II base fluids, incorporating ashless additive technology and available in a variety of viscosity grades. They are rust and oxidation inhibited and will provide protection against corrosion even in the presence of seawater. Excellent anti-wear properties provide protection against wear in the most demanding of systems. The presence of effective anti-foam additives facilitate the rapid release of air and reduce sponginess in system operation. These hydraulic oils meet the stringent filterability requirements of modern hydraulic machines and robotics. Group II base oil technology ensures reduced evaporation losses in high temperature applications, particularly with the lower viscosity grades and improved deposit control in critical valve gear.

**Features**

- Zinc free, ashless additive
- Excellent water separation properties
- Long oil life
- Compatible with all bronze, silver and steel system parts
- Rapid air release properties
- Excellent thermal stability
- Excellent filterability

**Applications**

Recommended for both Industrial and off highway hydraulic systems. Other applications include: machining centre headstocks, centralised lubrication systems, hydrostatic drives, power steering, compressors, suspension units, tipping gear, airline lubricators, jacks, PTOs, et cetera where long life and good filterability is required.

**Performance Levels**

DIN 51524 Parts I and II (HLP)	Bosch Rexroth (formerly Mannesmann Rexroth) RE 90220 *
Cincinnati Milacron P-68, P-69, P-70	General Motors LS-02 *
Vickers Eaton I-286-S, M-2950-S	German Steel Industry SEB 181222 *
Denison HF-0*, HF-1, HF-2	US Steel No.s 126, 127, 136 *
AFNOR NFE 48-603 Parts I and II *	SAE MS1004 *

Note: Specifications marked with an asterisk do not apply to ISO VG 10, 15, 22, 100, 150 grades.

**Physical characteristics**

Product	1	2	3	4	5	6	7	8
ISO VG Grade	10	15	22	32	46	68	100	150
Relative Density @ 15.6°C	0.841	0.855	0.866	0.857	0.861	0.865	0.877	0.885
Kinematic Viscosity @ 40°C (cSt)	9.97	14.68	22.13	33.59	46.50	66.68	97.30	152.4
Kinematic Viscosity @ 100°C (cSt)	2.68	3.39	4.37	5.81	7.03	9.00	11.16	15.52
Viscosity Index	100	100	100	115	110	110	100	100
Closed Flash Point (°C)	165	170	195	210	215	218	215	226
Pour Point (°C)	-40	-40	-30	-36	-36	-33	-30	-30
Foaming Characteristics (ml)	All Seq 25-0 max							
Water Separability (mins)	5	8	10	10	10	15	10	20
Rust Test (ASTM D665 A & B)	Pass							
Vickers Pump Wear (wt loss mgs)	-	-	<100	<50	<50	<50	<50	<50

Figures based on average production values

(TDS Liquimatic 1 to 8- 170216 Issue 11)

