

## Product Information

# LIQUIMATIC 1, 2, 3, 4, 5, 6, 7 and 8

## 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. They also contain an effective anti-foam additive to 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.

## Main Features

1. Rapid air release
2. Zinc Free, ashless additive
3. Long oil life and excellent filterability
4. Compatible with all bronze, silver and steel system parts
5. Latest anti-wear and EP technology
6. Excellent thermal stability

## 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, etc., where long life and good filterability is required.

## Performance Levels

DIN 51524 Parts I and II (HLP)  
AFNOR NFE 48-603 Parts I and II \*  
Vickers Eaton I-286-S, M-2950-S  
Denison HF-0\*, HF-1, HF-2  
US Steel No.s 126, 127, 136 \*

Cincinnati Milacron P-68, P-69, P-70  
General Motors LS-02 \*  
Bosch Rexroth (formerly Mannesman Rexroth) RE 90220 \*  
German Steel Industry SEB 181222 \*  
SAE MS1004 \*

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

## Physical Characteristics

Grade	1	2	3	4	5	6	7	8
ISO VG	10	15	22	32	46	68	100	150
Density	0.845	0.860	0.871	0.873	0.874	0.880	0.885	0.890
Flash Point (Open) °C	190	190	220	220	240	240	250	255
Viscosity cSt at 100 °C	2.6	3.3	4.2	5.4	6.7	8.9	11.1	14.1
Viscosity cSt at 40 °C	9.7	14.5	21.9	31.9	44.1	68.5	99.4	143.1
Viscosity Index	95	95	95	105	100	100	95	95
Pour Point °C	-40	-40	-30	-35	-35	-30	-30	-30
Rust Test (D-665) A and B	← No Rust →							
Foaming Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG Gear Test, pass load (stage)	--	--	--	12	12	12	12	12
Vickers Pump Wear, (wt loss mgs)	--	--	<100	<50	<50	<50	<50	<50

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