

Hydraulic oils

HYDROL® PREMIUM L-HM 46

Quality class:	Quality class according to ISO 11158 - HM
Viscosity grade:	ISO VG: 46

General features

Hydrol® Premium L-HM hydraulic oils are manufactured basing on refined mineral oils and zinc free set of enriching additives.

Features:

High level operating properties:

- high thermal and hydrolytic stability,
- high resistance to oxidation,
- high ability to transfer loads (FZG test, breaking load >12) and very good antiwear properties,
- very good ability to be filtered,
- very good resistance to foaming,
- compatibility with sealants.

Hydrol® Premium L-HM can be mixed with other zinc free hydraulic mineral oils.

Application

High durability of Hydrol® Premium L-HM enables their application in highly loaded systems of power transmission as well as hydraulic drive and control operating in extremely high pressures and temperatures. New, unique formula used in the manufacturing process guarantees their extended lifetime compared to standard mineral hydraulic oils.

Standards, approvals, specifications

Approvals:

Eaton (Vickers) M-2950-S

Eaton (Vickers) I-286-S

Eaton (Vickers) - Brochure 03-401-2010 - 35VQ25A

Meets requirements:

Parker Denison HF-0, HF-1, HF-2

Bosch Rexroth RE 90220-01

MAG/ Cincinnati Machine P-70

DIN 51524 part 2

Physical and chemical properties

Parameters	Unit	Typical values
Kinematic viscosity at 40°C	mm ² /s	44.5
Viscosity index	-	102
Flow temperature	°C	-27
Ignition temperature	°C	212

Resistance to foaming · susceptibility to foaming: foam volume after 5 min. of blowing with air at 25°C, · foam durability: foam volume after 10 min. standing still at 25°C standing still at 25°C	ml	25 0
Corrosiveness to copper 3 h/120°C, corrosion rate	reference sample	1 a
Deemulsifying properties - emulsion and water separation time to achieve: - 40 - 43 ml of oil - 37 - 40 ml of water - 0 - 3 ml of emulsion at	min.	10
	°C	54
Ability to release air at 50°C	min.	5
Ability to transfer loads with the FZG, breaking load, minimum	-	12
ATTENTION: Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.		