

## RUBRIC HLPD

### Hydraulic Fluids

#### DESCRIPTION

**RUBRIC HLPD** are hydraulic fluids based on mineral oil with detergent and dispersant qualities.

Their anti-wear and zinc-free (ashless) technology deliver reliable performance and ultimate cleanliness in applications contaminated by aqueous products such as metalworking fluids.

#### RECOMMENDED APPLICATIONS

**RUBRIC HLPD** hydraulic fluids are suitable for a wide range of industrial and manufacturing applications where a high level of dispersancy is required due to water ingress or contamination.

**RUBRIC HLPD** oils are particularly recommended for use in hydraulic systems of machine tools, where water mixed cutting fluids may enter the hydraulic system.

#### ADVANTAGES

- Superior emulsification properties.
- Excellent anti-wear properties.
- Excellent foaming tendency and stability control.
- Rapid air release.
- Very good oxidation stability.
- Superior filterability.

#### SPECIFICATIONS / APPROVALS

**RUBRIC HLPD** fulfils the most common specifications and OEM requirements:

- DIN 51524 part 2 (HLP)
- Daimler Chrysler DBL 6721
- Ortlinghaus test for wet running clutch-brake-units according to ON 9.2.19.

#### TECHNICAL INFORMATIONS

CHARACTERISTICS	Standards	RUBRIC HLPD 32	RUBRIC HLPD 46	RUBRIC HLPD 68	UNIT
Colour		Light yellow	Light yellow	Light yellow	
Viscosity at 40°C	ASTM D 445	32	46	68	cSt
Viscosity at 100°C	ASTM D 445	5.7	7.2	9.1	cSt
Viscosity index	ASTM D 2270	118	115	111	
Pour point	ASTM D 97	-33	-33	-33	°C
Flash point	ASTM D 92	216	238	238	°C
4-ball test weld load	ISO 20623	240	240	240	kg
4-ball test wear scar	ISO 20623	0.48	0.49	0.49	mm
Foam stability, seq I-II-III	NF T 60 129	0/0-0/0-0/0	0/0-10/0-0/0	0/0-10/0-0/0	ml/ml

The specifications are given for information purposes only and may need to change.