



## FP HVLP HYDRAULISCHÖL 46

### PRODUCT DESCRIPTION:

FP HVLP HYDRAULISCHÖL are synthetic hydraulic oils with excellent high temperature performance, high degree of shear stability and oxidation resistance. These oils are formulated to have a high viscosity index and a low pour point for use over a wider temperature range. They provide excellent wear protection and thermal stability at high temperatures to minimize deposit formation and provide long service life. They protect hydraulic system components against rust and corrosion. Torque SYN HVLP oils are formulated for very long drain interval and provide equipment protection up to three times longer than comparable conventional products.

### APPLICATION:

- Hydraulic systems such as Numerically Controlled (NC) machines.
- Systems employing multi-metal component designs.
- High pressure vane, piston and gear pumps.
- Systems where cold start-up and / or very high operating temperatures are typical.
- In systems containing gears and bearings.
- Systems requiring a high degree of loadcarrying capability and anti-wear protection.

### FEATURES & BENEFITS:

- Helps extend service intervals.
- Helps prevent internal hydraulic system corrosion.
- Helps reduce wear of components.
- Helps to ensure equipment protection at cold start-up temperatures.
- Helps protect system components at high operating temperatures.
- Helps reduce system deposits and potential sludging.

### PERFORMANCE LEVELS: Meets or Exceeds:

- DIN 51524 Part 3, Type HVLP
- Denison HF-0, HF-1, HF-2
- AFNOR NFE 48-603 (HV)
- ISO 11158 HV

### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	RESULT
<b>Grade</b>			<b>46</b>
Kinematic Viscosity@ 104°F / 40°C	ASTM D7042	cSt	46
Kinematic Viscosity@ 212°F / 100°C	ASTM D7042	cSt	8.26
Viscosity Index	ASTM D2270	-	156
Density@15°C/ 60°F	ASTM D4052	g/cm3	0.858
Flash Point	ASTM D92	°C	234
Pour Point	ASTM D97	°C	-36
Copper Strip Corrosion 3 hours @ 100° C	ASTM D130	-	1B
Rust Characteristics	ASTM D665B	-	Pass
Foam Sequence I, II, III	ASTM D892	ml	0/0
Demulsibility, 54°C, 3ml emulsion	ASTM D1401	minutes	15

### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point.