

# HYDRO OIL HD SERIES

## High Performance Hydraulic System Oil

### Description

It is a high performance HLP type hydraulic system oil with major OEM approvals.

### Applications

It is recommended to all industrial and moving hydraulic systems. Among its special industrial applications include construction machines, presses, moving construction equipment, plastic injection and drawing machines and screw-type air compressors.

### Benefits

- Cleans the system.
- Excellent oxidation resistance and water separation characteristic.
- Prevents cavitations due to its high air release properties.
- Adopts to wide range of climatic conditions due to its high Viscosity Index.
- Used in hydraulic system operating under extremely high temperatures like plastic injection machines with its high thermal stability.
- Saves energy by preventing pressure surge in the pumps during cold start-ups.
- Ensures efficient system operation and perpetual power transmission.

### Performance

Bosch Rexroth RDE 90235 (approval for ISO VG 32, 46 and 68 grades), Cincinnati P 68, 69,70 (approval for SAE 32, SAE 68, SAE 46 grades, respectively), DIN 51524 Part II (HLP), Eaton M-2950 S/I-286 S3, ISO 20763 Conestoga Vane Pump Tests, JCMAS P041 HK, Parker HF-0, HF-1, HF-2 (approval for ISO VG 32, 46, and 68 grades)

### Typical Specifications\*

ISO Viscosity Grade		10	22	32	46	68	100	150	220
Density, 15 °C, kg/liter	ASTM D4052	0,857	0,869	0,877	0,880	0,886	0,888	0,894	0,899
Flash Point COC, °C	ASTM D92	138	202	220	236	242	248	266	266
Viscosity, 40 °C, mm <sup>2</sup> /s	ASTM D445	10	22	32	46	68	100	150	220
Viscosity, 100 °C, mm <sup>2</sup> /s		2,66	4,31	5,36	6,76	8,73	11	14,45	18,50
Viscosity Index	ASTM D2270	100	101	101	100	100	94	94	93
Pour Point, °C	ASTM D97	-33	-30	-27	-24	-27	-18	-12	-9

\* Values shown may differ between productions.

