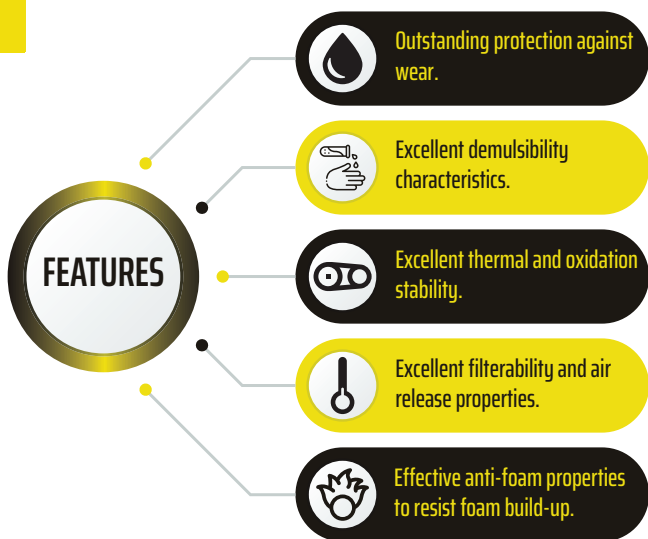




SHIELD - HYDRAULIC OILS

DESCRIPTION

Shield's Hydraulic Oils are superior multi-purpose rust and oxidation anti-wear hydraulic oils. These lubricants are blended using premium quality virgin base oils and carefully selected high quality additives. The oils have good demulsibility characteristics which provides your equipment with a long service life.



PERFORMANCE LEVELS:

- DIN 51524H & HLP
- DIN 51517 CLP
- Cincinnati Milacron P-69, P-70 AW Hydraulic Oils
- Vickers M-2950-S
- Abex-Denison Service Application HF-0/1

APPLICATIONS:

These Hydraulic Oils are recommended for use in modern high pressure service hydraulic systems, precision machine tools, circulation system of industrial gear boxes, earth moving equipments, forklifts and cranes.

TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	ISO Grades									
			10	10W	22	32	37	46	68	100	150	220
1	Density @ 15°C	ASTM D 1298	0.880	0.875	0.85	0.873	0.875	0.8765	0.8826	0.883	0.885	0.89
2	Viscosity @ 40°C, cSt	ASTM D 445	10	40	22	32	37	46	68	100	150	220
3	Viscosity @ 100°C, cSt	ASTM D 445	2.56	6.1	4.26	5.38	5.85	6.78	8.73	11.36	15.33	19
4	Viscosity Index	ASTM D 2270	76	96	95	101	98	100	100	99	103	97
5	Flash Point COC, °C	ASTM D 92	165	220	220	220	220	230	230	238	246	250
6	Pour Point, °C	ASTM D 97	-18	-27	-35	-27	-27	-24	-21	-18	-18	-15
7	Color	ASTM D 1500	L1.0	L1.0	L1.0	L1.0	L1.0	L1.5	L2.0	L2.0	L2.5	L3.0
8	Appearance	ASTM D 4176	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B	C & B
9	Demulsibility Test	ASTM D 1401	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

*Exact specifications may slightly vary from the above, but within the international standards