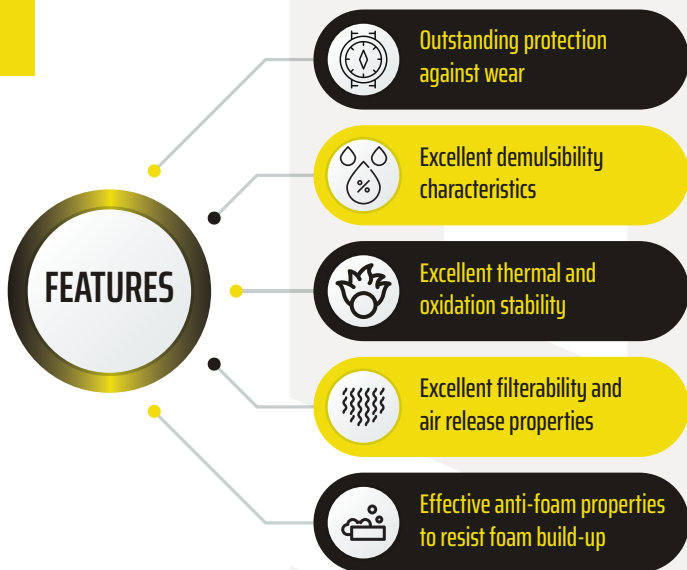


SHIELD - HYDRAULIC HVI OILS (HIGH VISCOSITY INDEX)

DESCRIPTION

Shield's Hydraulic HVI Oils are superior multi-purpose anti-wear high viscosity index hydraulic oils blended using premium quality virgin base oils and selected high quality additives. The oil's high viscosity index allows for hydraulic systems to start easily at low temperatures while retaining it's viscosity at high temperatures, thereby reducing pump and component wear.



PERFORMANCE LEVELS:

- DIN 51524H & HLP
- DIN 51517 CLP
- Cincinnati Milacron P-68, P-69, P-70 AW Hydraulic Oils
- Vickers M-2950-S
- Abex-Denison Service Application HF-0/1

APPLICATIONS:

Shield's Hydraulic HVI 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				
			22	32	46	68	100
1	Density @ 15°C	ASTM D 1298	0.8450	0.8730	0.8765	0.8826	0.8830
2	Viscosity @ 40°C, cSt	ASTM D 445	22	32	46	68	100
3	Viscosity Index	ASTM D 445	165	145	137	130	126
4	Flash Point, COC °C	ASTM D 92	220	220	225	230	246
5	Pour Point, °C	ASTM D 97	-35	-27	-24	-21	-18
6	Color	ASTM D 1500	L1.0	L1.0	L1.5	L2.0	L2.0
7	Appearance	ASTM D 4176	C & B	C & B	C & B	C & B	C & B
8	Demulsibility Test	ASTM D 1401	Pass	Pass	Pass	Pass	Pass

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