


**HYDRAULIC OILS:**
**TL CIRCULATING HYDRAULIC OILS**

**ISO VG** : 15, 22, 32, 46, 68, 100, 150, 220, 320 & 460

**Performance Level** : IS 3098: 1983, DIN 51524 Part – 1 HL Type

These oils are high quality solvent refined mineral oils. These oils have high viscosity index, good oxidation and thermal stability. They provide excellent lubrication and protection against rust & corrosion. These oils have excellent compatibility with seals used in hydraulic systems.

**Application:** These oils are recommended for hydraulic and circulating systems of industrial and automotive equipments.

Sr. No.	Characteristics	ISO VG 15	ISO VG 22	ISO VG 32	ISO VG 46	ISO VG 68	ISO VG 100	ISO VG 150	ISO VG 220	ISO VG 320	ISO VG 460
1	ASTM Colour	1	1	1.5	1.5	1.5	2	2.5	2.5	3	3.5
2	Density @ 29.5 °C	0.84 to 0.91									
3	K.V. cSt @ 40 °C	15	22	32	46	68	100	152	221	323	465
4	VI	100	100	100	99	95	98	96	95	95	92
5	Flash Point, °C	160	170	188	190	220	240	250	250	250	274
6	Pour Point, °C	-9	-9	-9	-9	-9	-6	-6	-6	-3	0
7	Copper corrosion test	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a
8	Demulsibility Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

**Note:** The above mentioned data are typical and it may vary with batch to batch within Permissible specification limits.