

DIVYOL ANTI-WEAR HYDRAULIC OILS

Applications:

Divyol Anti-wear (AW) Hydraulic Oils are used, with due pressure, to actuate various mechanisms of CNC and special purpose machines. The pressure is developed by employing positive displacement pumps such as axial, piston, vane and gear types. Usually, the moving parts of these pumps wear out with repeated use, thus impairing machine performance. But Divyol AW Hydraulic Oils protects the pumps and their components from wear. These oils are suitable for high pressure hydraulic systems and where high speed actuations are desired. They are also used in enclosed gear boxes, compressors, chain drives, machine tools and circulation oiling systems.

Standards:

Divyol AW Hydraulic Oils are a unique blend of solvent refined base oils and select additives with the superior anti-wear, anti-oxidant, anti-rust and anti-foam properties. Each grade oil in the series conforms to ISO:VG 22 to 150 requirements as well as performance standards of DIN 51524 Part I, IS:10522 -1993 and ISO:11158 (HM Fluid).

Advantages:

Divyol AW Hydraulic Oils protect pump components, valves, cylinders, pistons and other system internals from wear, rust and corrosion. These oils have excellent demulsibility which allows entrained water to settle down. The blend also provides resistance to foaming to ensure prompt functioning. Regular use of these oils results in longer oil change intervals and longer service life of the pumps. Being multipurpose, Divyol AW Circulating Oils also cause a reduction in inventory.

Typical properties:

Sr. No.	Characteristics	Test Method	Divyol Anti-Wear Hydraulic Oils						
			AW 22	AW 32	AW 46	AW 57	AW 68	AW 100	AW 150
1	Appearance	Visual	Bright and clear	Bright and clear	Bright and clear	Bright and clear	Bright and clear	Bright and clear	Bright and clear
2	Colour, max.	ASTM D 1500	3.0	3.0	3.5	2.5	2.5	4.5	4.5
3	Kinematic viscosity at 40 °C, cSt min.	ASTM D 445	22	32	46	57	68	100	150
4	Viscosity index, min.	ASTM D 2270	98	98	95	98	98	95	95
5	Flash point, COC, °C, min.	ASTM D 92	180	195	210	215	220	230	230
6	TAN, mg KOH/g, max.	IS:1448 P:2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7	Rust preventive characteristics	ASTM D 665B	Complies	Complies	Complies	Complies	Complies	Complies	Complies
8	Pump wear in mg ms (Vickers 104 °C pump test)	ASTM D 2882	-	50	50	50	50	50	50
9	Pour point, °C, max.	ASTM D 97	-9	-9	-6	-3	-6	-3	-6
10	Emulsion characteristics at 54 °C	ASTM D 1401	40-37-3 (20)	40-37-3 (20)	40-38-2 (20)	40-37-3 (20)	40-37-3 (20)	-	-
11	Emulsion characteristics at 82 °C		-	-	-	-	-	40-37-3 (30)	40-37-3 (10)
12	Foaming characteristics, ML stability	ASTM D 892							
	Seq. I		Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Seq. II		Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Seq. III		Nil	Nil	Nil	Nil	Nil	Nil	Nil

The above properties are typical values and do not constitute specification of the product.

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