

Entro HVI ZF

Description :

Divyol Entro ZF Hydraulic Oils are ashless, zinc free, premium hydraulic fluids blended from severely hydro processed base oils and fortified with a highly shear stable polymer and an advanced ashless additive system to provide reduced environmental impact in case of an accidental spillage. These lubricants give a long trouble free service life and are chemically stable under severe operating conditions. They provide excellent corrosion protection, resisting emulsification and prevent formation of unwanted foam.

Performance Level : Meets

DIN 51524, Part I, Part II, Part III (HLP, HVLP),
AFNOR NFE 48-603 (HV),
Denison HF-0, HF-1, HF-2,
BIS 11656-1986 (Reaffirmed 2013),
Eaton E FDGN TB 002E,
ISO 11158 (HM,HV),
SS 155434.

Application :

These products are advised for application where use of Zinc in hydraulic oils is not recommended. It is suitable for hydraulic systems, Gear boxes, compressors and Circulating systems where the oil is recirculated for extended durations. It is particularly recommended for Aluminium Rolling systems, where Zinc based fluids may cause issues as well as for high performance Electro hydraulic or numerical controlled Governor Systems that require Zinc-Free Fluids for Silver or Cadmium coated system.

Performance Benefits :

Outstanding thermo-oxidative stability reduces deposit formation, improves pump performance and gives extended oil & filter change intervals.

Typical Physical Characteristics :

Sr. No.	Characteristics	Test Method	Entro HVI - ZF	
			46	68
1	Appearance	Visual	Bright & Clear	
2	Colour	ASTM D 1500	L 0.5	L 0.5
3	Kinematic viscosity @ 40°C, cSt	ASTM D 445	42 - 50	62 - 74
4	Kinematic viscosity @ 100°C, cSt	ASTM D 445	8.5	11.4
5	Viscosity index	ASTM D 2270	150	150
6	Flash point, COC, °C	ASTM D 92	220	220
7	Pour point, °C	ASTM D 97	Minus 21	Minus 21
8	Copper strip corrosion, 3 Hrs. @ 100°C	ASTM D 130	1a	1a
9	Foaming characteristics, Tendency / Stability, ml, Max. Seq. I / Seq. II / Seq. III	ASTM D 892	Nil / Nil / Nil	Nil / Nil / Nil
10	Rusting Test	ASTM D 665B	Pass	Pass
11	Emulsion Test @ 54 °C ml	ASTM D 1401	40-37-3 (10)	40-37-3 (10)
12	Turbine Oil Stability Test, Hrs.	ASTM D 943	10000+	10000+
13	FZG, Rating Stage Failure	ASTM D 5182	>12	>12