

Entro ZF

Description :

Divyol Entro ZF Hydraulic Oils are ashless, zinc free, premium hydraulic fluids blended from hydrotreated high viscosity index base oils and fortified with performance additives including a special ashless multifunctional oxidation, rust and wear inhibitor additive package with a low pour point. 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,
AFNOR NFE 48-603 (HV),
FIVES CINCINNATI (Formerly MAG IAS, LLC), P-68, P-69, P-70,
Denison HF-0, HF-1, HF-2,
BIS 11656-1986 (Reaffirmed 2013),
US Steel 126/127/136,
Eaton E FDGN TB 002E,
ISO 11158 (HM,HV),
SS 155434,
SEB 181222.

Application :

This product is advised for applications where use of Zinc in hydraulic oil is not recommended. It is particularly recommended for Aluminium Rolling Systems, where Zinc based fluids may cause issues as well as for high performance Electro hydraulic or numerically controlled Governor Systems that require Zinc-Free Fluids for Silver or Cadmium coated system.

Performance Benefits :

- This product has excellent filterability and outstanding demulsifying properties.
- It provides good resistance to thermal breakdown and the capability to perform under various ambient and operating temperatures, thus guaranteeing peak life and performance.

Typical Physical Characteristics :

Sr. No.	Characteristics	Test Method	Entro ZF 32	Entro ZF 46	Entro ZF 68
1	Appearance	Visual	Bright & Clear		
2	Colour	ASTM D 1500	0.5	0.5	0.5
3	Kinematic viscosity @ 40°C, cSt	ASTM D 445	30 - 35	42 - 50	62 - 74
4	Kinematic viscosity @ -20°C, cSt	ASTM D 445	796	1247	2450
5	Viscosity index	ASTM D 2270	112	112	112
6	Flash point, COC, °C	ASTM D 92	205	215	225
7	Copper Strip Corrosion @ 100°C for 3 Hrs.	ASTM D 130	1a	1a	1a
8	Rusting Test	ASTM D 665B	Pass	Pass	Pass
9	Pour point, °C	ASTM D 97	Minus 39	Minus 39	Minus 39
10	FZG, Rating Stage Failure	ASTM D 5182	>12	>12	>12
11	Turbine oil stability test, Hrs.	ASTM D 943	10000+	10000+	10000+