



Hydraulic Oil ZF Range

Zinc free mineral based hydraulic oils, also referred to as low ash hydraulic oils.

Product Description:

Hydraulic Oil ISO 46 ZF is a Zinc and ash free high specification industrial hydraulic oil, manufactured from a blend of solvent refined mineral oils with highly shear stable viscosity index improvers and a multipurpose ash-less hydraulic oil additive system. The ash free additive pack used reduces the possibility of sludge and ensures rapid water separation.

Application:

For hydraulic systems where the use of zinc free additives is specified including silver bearings. Compatible with all metals and all seal materials used in hydraulic systems designed for mineral oil use.

- Heat stable high viscosity index
- Anti-foaming agents and corrosion protection
- Anti-wear performance, oxidation resistance
- Corrosion protection
- Highly shear stable

DIN 51524 Part 2
ASTM D6158
ISO 11158
Sperry Vickers I-286-S
Denison HF-0, HF-1, HF-2
AFNOR NFE 48603 (HM)

Typical test data:

ISO Grade	22	32	46	68	100	150
Specific Gravity @ 15.5°C	0.868	0.874	0.879	0.882	0.888	0.890
Kinematic Viscosity @ 40°C (cSt)	22	32	46	68	100	150
Kinematic Viscosity @ 100°C (cSt)	4.3	5.4	6.8	8.8	11.4	14.9
Flash Point (°C)	200	>210	>210	>220	>225	>230
Viscosity Index	100	100	101	102	101	100

In line with our policy of continued improvement, Lubricants Direct reserve the right to change specification and availability without prior notice. This lubricant, used according to our recommendations and for its designed application, does not represent any particular risk. A safety data sheet in conformity with the legislation now current in the EC is available from <http://www.fordfueloils.co.uk>