



Aero HF 585 B

Mineral hydraulic fluid

Description

Castrol Aero HF 585 B is a mineral oil based low viscosity hydraulic fluid which is intended for use in hydraulic systems where rapid system response is required, particularly at low temperatures. Castrol Aero HF 585 B is ideally suited to accumulator driven emergency control systems.

Castrol Aero HF 585 B is produced from low viscosity highly refined mineral basestock, shear stable viscosity index improver, antioxidants, corrosion inhibitors and anti-wear additives.

Application

Hydraulic systems operating at low ambient temperatures or driven by accumulators, such as Emergency Shut Down Valves and Watertight Door controls.

Approval Status

Castrol Aero HF 585B can be used where a fluid conforming to the following standards is required:

- DEF STAN 91-48/2
- Joint Services Designation OM-15
- MIL-PRF-5606H
- NATO H-515

Features and Benefits

Castrol Aero HF 585 B is available globally and combines excellent protection with performance and versatility in Offshore operations to provide the following key benefits:-

- Excellent low temperature fluidity.
- Good viscosity characteristics over a wide temperature range.
- Good elastomer compatibility.
- Good compatibility with metals.

Technical Data

| Name | Method | Units | Aero HF 585 B |
|---|--------------------|--------------------------------------|-------------------------|
| ISO Viscosity Grade | | | 15 |
| Kinematic Viscosity at 40°C | IP 71 / ASTM D445 | mm ² /s | 14 |
| Kinematic Viscosity at 100°C | IP 71 / ASTM D445 | mm ² /s | 5.4 |
| Kinematic Viscosity at -40°C | IP 71 / ASTM D445 | mm ² /s | 400 |
| Kinematic Viscosity at -54°C | IP 71 / ASTM D445 | mm ² /s | 2200 |
| Viscosity Index | IP226 / ASTM D2270 | | > 350 |
| Relative Density at 15°C | IP 160 | g/ml | 0.87 |
| Acidity | IP139 / ASTM D974 | mgKOH/g | 0.15 |
| Pour Point | IP 15 | °C | < -70 |
| Closed Flash Point | IP 34 / ASTM D93 | °C | 100 |
| Co-efficient of Cubical Expansion | | °C ⁻¹ | 8.65 x 10 ⁻⁴ |
| Adiabatic Tangent Bulk Modulus at 180°C | | lb/in ² x 10 ⁵ | 0.90 |
| Adiabatic Tangent Bulk Modulus at 100°C | | lb/in ² x 10 ⁵ | 1.55 |
| Adiabatic Tangent Bulk Modulus at 40°C | | lb/in ² x 10 ⁵ | 2.25 |

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Packaging and Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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