

## TECHNICAL DATA SHEETS

### elin HHV series (22, 32, 46, 68, 100, 150)

#### Description

elin HHV oils are high viscosity index mineral oils based hydraulic fluids.

elin HHV oils are recommended for hydraulic or circulating oil systems, including marine on-deck machinery, hydraulic actuated loading bins, or equipment that requires a wider operating temperature as compared to a single viscosity grade oil.

#### Main Performance Features

1. High oxidation stability
2. Protection against rust and corrosion
3. High viscosity index (this allows a single grade of oil to be used in marine hydraulic system which operates in different climate zones).
4. Foam inhibition
5. Excellent antiwear properties
6. Good stability
7. Fast water separation
8. Good filterability
9. Low pour point properties

#### Typical uses

elin HHV oils are suitable for use in marine hydraulic power systems such as winches, deck cranes, steering gears, hatch cover and hydraulic valve systems etc. They may also be used in certain marine gearboxes and for turbocharger lubrication.

#### Requirements - Specifications

elin HHV oils meet the below requirements – specifications:

- DIN 51524 PART III HVLP
- DENISON HF-0 & HF-2
- ISO 6743-4 HV

#### (\*) Typical Characteristics

| ISO GRADES                   | 22    | 32    | 46    | 68    | 100   | 150   |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Density at 15°C, Kg/l        | 0,865 | 0,872 | 0,878 | 0,882 | 0,888 | 0,890 |
| Kin. Viscosity at 40°C, cSt  | 22,5  | 32    | 46    | 68    | 100   | 150   |
| Kin. Viscosity at 100°C, cSt | 5,1   | 6,4   | 8,2   | 11    | 14,2  | 18    |
| Viscosity Index              | 165   | 157   | 154   | 153   | 145   | 133   |
| Flash point (C.O.C.), °C     | 180   | 190   | 200   | 205   | 220   | 250   |
| Pour Point, °C               | -36   | -36   | -33   | -30   | -30   | -21   |

(\*) (The above figures are typical of those obtained within normal production tolerances, and do not constitute a specification)

