

# Hydrostatic Oils for Voith Cooling Systems

## List of approved hydrostatic oils 172.00225028\_EN, Version 2 dated 2018-07-10

- Only a hydrostatic oil approved by Voith may be used to fill the hydrostatic system in Voith cooling systems. Other hydrostatic oils, mixtures of hydrostatic oils or impure hydrostatic oils are not permitted.  
No warranty whatsoever can be given for the cooling system if it is operated with a hydrostatic oil not approved by Voith.

Before filling with a particular hydrostatic oil, the current version of this document must be located on the internet on the following page and checked:

[www.voith.com/brochures/G2395](http://www.voith.com/brochures/G2395)

| Manufacturer | Designation    | Viscosity class | Minimum oil temperature at |                                   | Maximum oil temperature | Permitted temperature range in continuous operation <sup>3</sup> |
|--------------|----------------|-----------------|----------------------------|-----------------------------------|-------------------------|------------------------------------------------------------------|
|              |                |                 | engine start <sup>1</sup>  | operation under load <sup>2</sup> |                         |                                                                  |
| Addinol      | HVLP           | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| Addinol      | HVLP           | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |
| AVIA         | Avia Fluid HVI | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| AVIA         | Avia Fluid HVI | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |
| AVIA         | Avilub Arctic  | 32              | -40 °C                     | -20 °C                            | 70 °C                   | 40 - 60 °C                                                       |
| Shell        | Tellus S2VX    | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| Shell        | Tellus S2VX    | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |
| Shell        | Tellus S3V     | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| Shell        | Tellus S3V     | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |
| Shell        | Tellus S4VX    | 32              | -40 °C                     | -20 °C                            | 70 °C                   | 40 - 60 °C                                                       |
| Texaco       | Rando HDZ      | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| Texaco       | Rando HDZ      | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |

**Table 1.1:** Approved hydrostatic oils

| Manufacturer | Designation   | Viscosity class | Minimum oil temperature at |                                   | Maximum oil temperature | Permitted temperature range in continuous operation <sup>3</sup> |
|--------------|---------------|-----------------|----------------------------|-----------------------------------|-------------------------|------------------------------------------------------------------|
|              |               |                 | engine start <sup>1</sup>  | operation under load <sup>2</sup> |                         |                                                                  |
| Valvoline    | Ultramax HVLP | 32              | -25 °C                     | -10 °C                            | 75 °C                   | 40 - 70 °C                                                       |
| Valvoline    | Ultramax HVLP | 68              | -25 °C                     | 0 °C                              | 95 °C                   | 60 - 90 °C                                                       |

1. Hydrostatic system under no load

2. Transient operation of the hydrostatic system under load

3. Relevant temperature for the selection of hydrostatic oils. The hydrostatic oil must be selected based on the medium temperature (→ Technical data sheet).

**Table 1.1:** Approved hydrostatic oils (continued)