

TS.TIS.6 REF:

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ECOSURE RANGE Instructions for Use



ECOSURE is a range of environmentally acceptable, high performance and anti-wear hydraulic fluids. These HEES fluids are based on renewable esters and use state-of-the-art ashless, zinc-free technology. These biodegradable lubricants behave differently to traditional mineral based hydraulic oils.

We recommend that the **ECOSURE RANGE** is used in accordance with the following guidelines:

- 1. The ECOSURE grades are suitable for use in hydraulic systems operating at temperatures in the range of -35°C to 100°C. ECOSURE HSE is recommended for prolonged exposure to high temperatures.
- 2. Any previous fluid in use in the system should be thoroughly drained and all filters renewed.
- 3. Carry-over of previous mineral or ester based hydraulic fluid should not be more than 5% of the total system capacity to avoid any compatibility issues.
- The equipment manufacturer's fluid viscosity guidelines should be adhered to. These will normally be available in the equipment manual.
- 5. **ECOSURE** grades should be filled via a fine filter, preferably 10-micron absolute pore size, to remove any possible contamination that may occur once the packaging is opened.
- 6. Any top-up of the system should be with the same grade of ECOSURE. Do not mix with other fluids including other biodegradable hydraulic fluids.
- 7. Water content should not exceed 1000 ppm (0.1%). Any free water should be separated off on a regular basis. Use of a hygroscopic breather on the equipment to absorb airborne moisture is recommended, particularly in tropical climates.
- Representative samples (minimum 100 ml) ideally should be sent to Vickers Oils for analysis within one month of sampling date in accordance with the following schedule:
 - On initial running (i.e. Within the first 10 operating hours)
 - At the earlier of one month or 100 operating hours ii.
 - iii. At the earlier of three months or 300 operating hours
 - Every three months or 300 operating hours thereafter

In case of any issues arising from the sample analysis, all recommendations by Vickers Oils should be followed.

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