

# NESTE OIL

## NESTE BIOHYDRAULI SE

Biodegradable fully synthetic hydraulic oil,

ISO VG 15, 32, 46 and 68

ISO 15380 L-HEES

SS 15 54 34 BV Miljöanpassad

Neste Biohydrauli SE is fully synthetic biodegradable hydraulic oil manufactured from fully renewable raw materials of natural origin. It is not toxic and it is environmentally friendly. Neste Biohydrauli SE is suitable especially for hydraulic applications where leakages and hose damages can lead to oil spills in nature and cause a serious environmental hazard.

High viscosity index and good cold properties enable wide operating temperature range. Excellent shear stability and effective protection against wear ensure high efficiency of the hydraulic system and reduces effectively hydraulic pump and motor wear. They are superior compared to traditional vegetable oils due to good cold properties and good oxidation stability.

| TYPICAL CHARACTERISTICS       | SE 15 | SE 32 | SE 46 | SE 68 |
|-------------------------------|-------|-------|-------|-------|
| Densitykg/m <sup>3</sup> 15°C | 924   | 910   | 919   | 921   |
| Pour Point°C                  | -51   | -49   | -42   | -39   |
| Viscosity Index               | 155   | 193   | 191   | 182   |
| ViscositycSt/ 40 °C           | 15    | 32    | 46    | 68    |
| ViscositycSt/ 100 °C          | 3,8   | 7,1   | 9,1   | 12,3  |
| Viscosity cSt/-10 °C          | 160   | 440   | 600   | 1000  |
| Viscosity cSt/-20 °C          | 540   | 1200  | 1430  | 2300  |
| Viscosity cSt/-30 °C          | 1200  | 2900  | 4000  | -     |
| Flash Point °C (COC)          | >200  | >200  | >200  | >200  |
| Biodegradability OECD 301 F % | >80   | >80   | >80   | >80   |
| ISO VG                        | 15    | 32    | 46    | 68    |

Neste Biohydrauli SE 46 is especially suitable for systems, e.g. forestry machines and earth movers, wood handling machines, marine hydraulics.

Neste Biohydrauli SE 15 has exceptionally good cold properties and is suitable for use in extreme cold conditions. Neste Biohydrauli SE 32 is suitable for use in tractors and earth movers hydraulics around-the year. Neste Biohydrauli SE 46 is the choice for severe summertime use as well as for use in reasonable winter temperatures. Neste Biohydrauli SE 68 is an excellent choice for severe summertime use in higher temperatures.

Neste Biohydrauli SE can be mixed with other synthetic esters, however even a small quantity of vegetable based (rape seed) oils can affect harmfully its properties.

Neste Biohydrauli Se can be used instead of ordinary mineral based oils. When changing from mineral based oils to Biohydrauli SE oil the system is strongly recommended to be emptied and flushed to ensure the biodegradability.

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Updated 10.9.2012

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