

Product Data Sheet

Concord Synth

Description and Applications

Saheli Concord Synth series are premium quality ash-less fully synthetic environmentally acceptable hydraulic oils specially developed to meet the requirements of the most demanding modern hydraulic systems in industrial and mobile service. These oils are formulated with an advanced anti-wear technology and synthetic base stock to provide outstanding protection to hydraulic equipment and to reduce environmental impact in case of an accidental release into the environment.

Features and Benefits

- Outstanding thermo-oxidative stability reduces deposit formation, improves pump and valve performance and allows extension of oil and filter change intervals.
- Exceptional anti-wear property results in longer pump life and reduced maintenance costs.
- Naturally high Viscosity Index ensures minimum viscosity change over a wide temperature range.
- Excellent demulsibility helps in faster separation of water from oil and resists formation of emulsions.
- Special rust and corrosion inhibitors protect multi-metallurgy components against negative effects of moisture presence in the system.
- Rapid air release property minimizes pump cavitations and prevents component damage.
- Offers long-term hydrolytic stability and yellow metal compatibility in presence of water.
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems.

Applications

- Most demanding hydraulic systems subjected to high pressures and loads and in environmentally sensitive applications and requiring extended oil change intervals.
- Hydraulic systems sensitive to deposits due to presence of solenoid/ servo / proportional valves having close tolerance in sophisticated Computer Numerically Controlled machines.
- Hydraulic systems in industrial and mobile service employing gear, vane and piston pumps and general machine lubrication where anti-wear hydraulic oils are recommended.
- Older design hydraulic pumps containing silver or silver-plated parts.

Specifications

- **DIN 51524 Part 2-HLP**
- **AFNOR NFE 48-603 (HM), ISO 11158 HM**

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| Test Parameters | Test Method | Typical Results | |
|-----------------------------------|-------------------|-----------------|-----------|
| ISO VG | | 32 | 46 |
| Density @ 15°C gm/cm ³ | ASTM D1298 | 0.83 | 0.85 |
| Viscosity Index | ASTM D2270 | 136 | 137 |
| Viscosity @ 40°C (cSt) | ASTM D 445 | 31.8 | 46.9 |
| Pour Point °C | ASTM D 97 | -24 | -24 |
| Flash Point (COC) °C | ASTM D 92 | 234 | 252 |
| Turbine Oil Stability Test (hrs) | ASTM D 943 | > 8000 | |
| Emulsion Test, 30 min max @ 54°C | ASTM D 1401 | Pass | |
| FZG, Fail load stage, minimum | ASTM DIN 51354/II | 11 | |
| Rust Test | ASTM D 665A/B | Pass | Pass |