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# Product Data Sheet

# Concord AW Plus

## Description and Applications

**Saheli Concord AW Plus** series are premium quality anti-wear 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 severely hydro-processed Group II base oils and a carefully selected additive system to satisfy the performance requirements of a wide range of hydraulic equipment subjected to high operating pressures and temperatures and to provide extended drain intervals.

## 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 fewer breakdowns, longer pump life and reduced maintenance costs
- 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 chances of pump cavitations and thus prevents component damage, reduces vibration and maintains efficiency especially in modern hydraulic systems where sump sizes are becoming smaller
- 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

- Hydraulic systems in industrial and mobile service employing gear, vane and piston pumps where anti-wear hydraulic oils are recommended.
- Most demanding hydraulic systems subjected to high pressures and loads.
- Applications requiring extended oil change intervals.
- Mobile hydraulic fluid power transmission systems and general machine lubrication.

## Specifications

- DIN 51524 Part 2-HLP
- AFNOR NFE 48-603 (HM), ISO 11158 HM
- Denison HF-0, HF-1, HF-2
- Eaton (Vickers) M-2950-S, M-2952-S, I-286-S
- Bosch Rexroth 07 075 for vane, piston and gear pumps, Sauer Danfoss 520L0463
- Cincinnati Machine P-68, P-69, P-70


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## Concord AW Plus

### Concord AW Plus 10-22

| Test Parameters | | Test Method | Typical Results | | |
|---|---|---|---|---|---|
| ISO VG | | | 10 | 15 | 22 |
| Density @ 15°C gm/cm3 | | ASTM D1298 | 0.837 | 0.843 | 0.848 |
| Viscosity Index | | ASTM D2270 | 109 | 109 | 108 |
| Viscosity @ 40°C (cSt) | | ASTM D 445 | 10.2 | 15.3 | 22.2 |
| Pour Point °C | | ASTM D 97 | -33 | -27 | -27 |
| Flash Point (COC) °C | | ASTM D 92 | 142 | 168 | 192 |
| Rust Test | | ASTM D 665A/B | Pass | Pass | Pass |
| Turbine Oil Stability Test, hrs | | ASTM D 943 | 3000+ | | 4500+ |
| FZG, fail load stage, min | | ASTM DIN 51354-2 | - | - | - |
| Foam Test, foam after 10 min of settling for all sequences | | ASTM D 892 | Nil | Nil | Nil |
| Emulsion Test 30 minutes max | @ 54°C | ASTM D1401 | Pass | Pass | Pass |
| | @ 82°C | | - | - | - |

### Concord AW Plus 32-100

| Test Parameters | | Test Method | Typical Results | | | |
|---|---|---|---|---|---|---|
| ISO VG | | | 32 | 46 | 68 | 100 |
| Density @ 15°C gm/cm3 | | ASTM D1298 | 0.852 | 0.855 | 0.858 | 0.861 |
| Viscosity Index | | ASTM D2270 | 105 | 104 | 100 | 99 |
| Viscosity @ 40°C (cSt) | | ASTM D 445 | 31.0 | 46.3 | 68.1 | 98.7 |
| Pour Point °C | | ASTM D 97 | -24 | -24 | -24 | -15 |
| Flash Point (COC) °C | | ASTM D 92 | 206 | 218 | 226 | 238 |
| Rust Test | | ASTM D 665A/B | Pass | Pass | Pass | Pass |
| Turbine Oil Stability Test, hrs | | ASTM D 943 | 5000+ | | | 4000+ |
| Emulsion Test 30 minutes, max | @ 54°C | ASTM D 1401 | Pass | Pass | Pass | - |
| | @ 82°C | | - | - | - | Pass |
| FZG, fail load stage, minimum | | ASTM D 51354-2 | 11 | 11 | 11 | 11 |


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