

SHELL PAPER MACHINE OIL S3 M

PAPER MACHINE CIRCULATING OILS

PREVIOUSLY SHELL DELIMA S

DESIGNED TO MEET CHALLENGES

Shell Paper Machine Oil S3 M are high performance oils based on modern ashless additive technology.

PERFORMANCE FEATURES

GOOD OIL LIFE-MAINTENANCE SAVING

- n Antioxidant additives provide excellent oil service life with superior performance in the ASTM Turbine Oil Stability Test.
- n Very low tendency to form deposits or sludge.

MAINTAINING SYSTEM EFFICIENCY

- n Allows easier removal of water. Helps to prevent formation of emulsions in system.
- n Good filterability is essential for clean systems and low filter cost.
- n Excellent anti-foam and air release properties.

RELIABLE WEAR AND CORROSION PROTECTION

- n Helps to prevent wear in the lubricated parts of the paper machine. Zinc-free ashless additive technology.
- n High level of corrosion protection for all metal surfaces.

APPLICATIONS

- n Shell Paper Machine Oil S3 M has been used in many applications especially in Metso and Voith paper machine circulating systems, including the dry and wet end of the machine along with calender stacks.
- n Lubrication of bearings, gears and auxiliary equipment in the wet and drying section of paper machines.
- n Hydraulic and lubrication systems in deflection-compensating rolls.
- n Maintained protection of gears under severe operating conditions compared to standard circulating mineral oil.
- n The bulk temperature of the oil should not continuously exceed 80°C.

COMPATIBILITY AND MISCIBILITY

- n Shell Paper Machine Oil S3 M is compatible with seal materials and paints specified for use with mineral oils.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

- n Can be used when DIN 51517 Part 2 type oils are required
- n FZG: DIN 51354 stage 12 Pass.

MEETS THE REQUIREMENTS OF:

- n SKF and METSO requirements for Paper Machine Oils
- n Voith VN 108.

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	150	220
Kinematic Viscosity (ASTM D 445)		
@ 40°C mm ² /s	150	220
@ 100°C mm ² /s	14.8	19.2
Viscosity Index (ISO 2909)	98	98
Density @ 15°C kg/m ³ (ISO 12185)	890	897
Flash Point °C (COC) (ISO 2592)	240	250
Pour Point °C (ISO 3016)	-21	-21
Demulsibility at 82°C (ASTM D 1401) (separation time)	10	10
Rust test, synthetic sea water	Pass	Pass
Oxidation Life (TOST) hrs (ASTM D 943)	3,364	4,378
Timken, OK Load lbs (ASTM D 2782)	50	60