



Shell Delima Oils S

Highly sophisticated mineral oil based, zinc free circulating oil

Shell Delima S oils are premium quality mineral oils for use in lubrication systems in modern paper machines.

Applications

- **Lubrication of bearings in the (drying) section of paper machines.**
- **Hydraulic and lubrication systems in deflection-compensating rolls.**
- **Enclosed gears not requiring full EP performance.**

Performance Features and Benefits

- **Oxidation resistant**
Antioxidant additives provide a good oil service life.
- **Thermal stability**
Very low tendency to form deposits or sludge.
- **Water separation**
Very good demulsibility.
- **Filterability**
Good filterability is essential for clean systems and low filter cost.
- **Corrosion protection**
High level of corrosion protection for all metal surfaces.
- **Antifoam characteristics**
Excellent antifoam and air release properties.
- **Antiwear performance**
Effectively prevents wear in the lubricated parts of the paper machine. Zinc-free additive technology.

Specification and Approvals

Delima S can be used when DIN 51517 Pt.2 type oils are required. FZG: DIN 51354 stage 12 Pass. Meets the SKF & Metso requirements for Paper Machine Oils. Meets the requirements of Voith VN 108.

Practical experience

Delima Oils S have been used in many applications especially in Valmet paper machines in Sweden and Finland. In most cases also in the wet part of the machines, the bulk temperature of the oil should not continuously exceed 160°F.

Seal and paint compatibility

Delima S oils are compatible with seal materials and paints specified for use with mineral oils.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Typical Physical Characteristics

Delima S		150	220	320
Kinematic Viscosity	ASTM D 445			
	at 40°C cst	150	220	320
	at 100°C cst	14.8	19.2	24.2
Viscosity Index	ASTM D 2270	98	98	96
Pour Point	°F (°C) ASTM D 5949	15 (-9)	15 (-9)	15 (-9)

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.