



Previous Name: Shell Morlina Oils

Shell Morlina S2 B

Industrial Bearing & Circulating Oils

- RELIABLE PROTECTION
- INDUSTRIAL APPLICATION
- WATER SHEDDING

Shell Morlina S2 B oils are high performance oils designed to provide outstanding oxidation and water separation protection for most general industrial bearing and circulating oil system applications and certain other industrial applications which do not require oils with extreme pressure (EP) properties. These oils meet the requirements of the Morgan Construction Company and Danieli for common bearing oils.

Performance Benefits

- **Long oil life – Maintenance saving**

Shell Morlina S2 B oils are formulated with a well proven rust and oxidation inhibitor additive package that helps provide consistent performance and protection throughout the maintenance interval.

- **Reliable wear & corrosion protection**

Shell Morlina S2 B oils help prolong the life of bearings and circulating systems through:

- Excellent water separation characteristics that helps ensure that critical oil films are retained between highly loaded parts.
- Good air release characteristics to minimize cavitation and associated damage to circulating pumps.
- Helps protect against corrosion, oxidation, and emulsion formation, even in the presence of water.

- **Maintaining system efficiency**

Shell Morlina S2 B oils are blended with high quality, solvent refined base oils that promote good water separation and air release to ensure the efficient lubrication of the machines and systems.

Applications

- **Machine circulation systems**

- **Oil lubricated bearings**

Suitable for most plain and rolling element bearings and general industrial applications.

- **Roll-neck bearings**

- **Enclosed industrial gear systems**

Low or moderately loaded enclosed gears where EP performance is not required.

Paint Compatibility

Shell Morlina S2 B oils are compatible with seal materials and paints normally specified for use with mineral oils.

Specification and Approvals

Shell Morlina S2 B oils meet the requirements of:

- Morgan "Morgoil®" Lubricant Specification New Oil (Rev. 1.1)
- Danieli Standard Oil 6.124249F
- DIN 51517-1 – type C
- DIN 51517-2 – type CL

Health and Safety



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

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

Advice

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

Protect the Environment

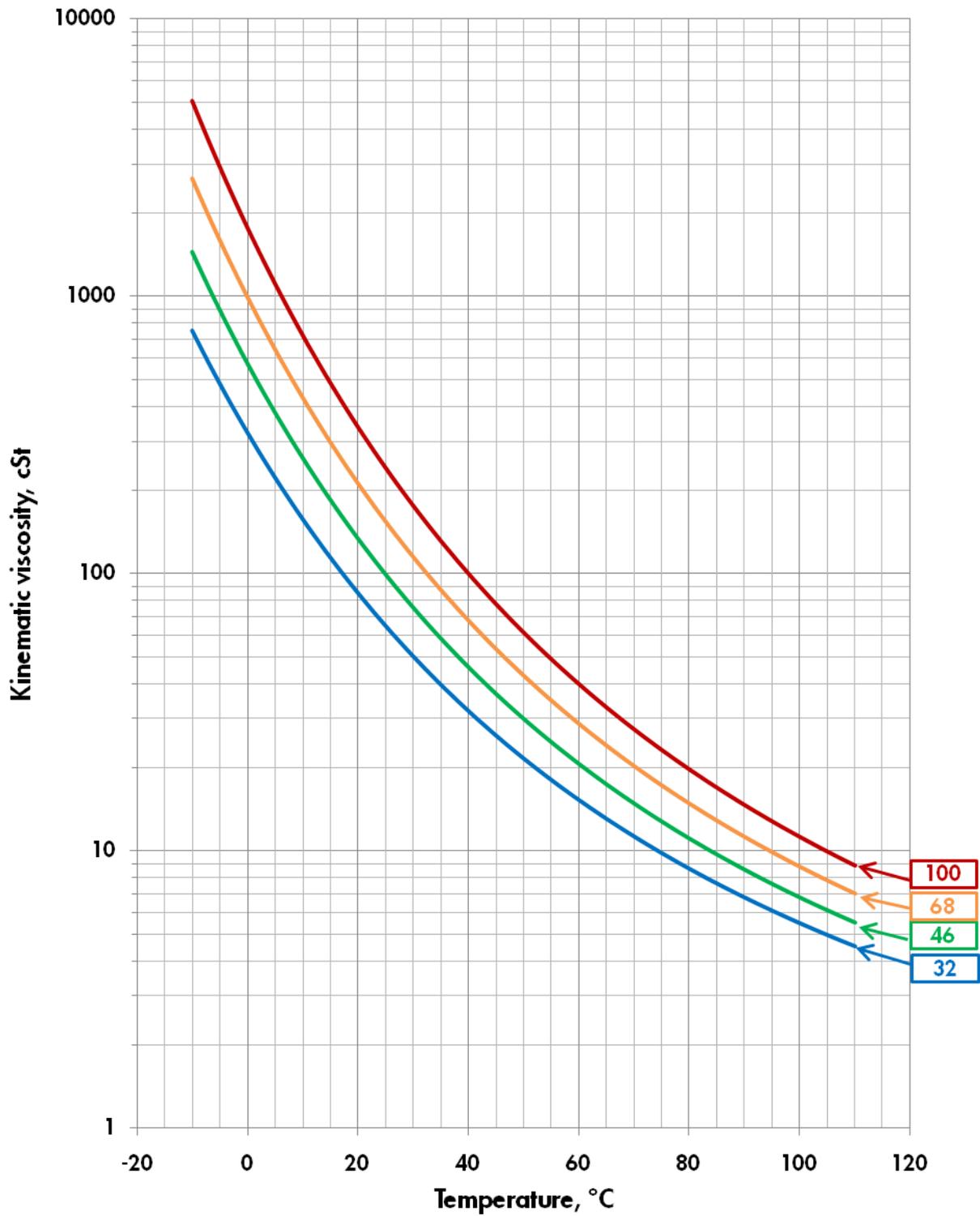
Typical Physical Characteristics

Shell Morlina S2 B		32	46	68	100	150	220	320	460	
ISO Viscosity Grade		32	46	68	100	150	220	320	460	
Kinematic Viscosity	ASTM D 445									
		at 40°C mm ² /s	32	46	68	100	150	220	320	460
		at 100°C mm ² /s	5.5	6.8	8.8	11.2	15	18.3	25	30
Density at 15°C	kg/m ³ ISO 12185	875	879	883	881	887	891	897	904	
Viscosity Index	ISO 2909	110	100	100	97	95	92	96	94	
Flash Point COC	°C ISO 2592	226	228	250	250	262	280	282	300	
Pour Point	°C ISO 3016	-27	-24	-21	-18	-15	-15	-12	-9	
Rust, Distilled Water	ASTM D665A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Emulsion Test, minutes	ASTM D1401	5	5	5	10	10	10	15	20	
Oxidation Control Tests:										
		(a) TOST, hrs	ASTM D943	1500+	1500+	1500+	1400+	1300+	1300+	1100+
		(b) RBOT, minutes	ASTM 2272	500+	500+	500+	400+	400+	400+	400+
Foam Test, Seq. II	ASTM D892									
ml foam at 0/10 minutes		5/0	5/0	5/0	10/0	10/0	10/0	20/0	20/0	

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



Viscosity - Temperature Diagram for Shell Morlina S2 B





Viscosity - Temperature Diagram for Shell Morlina S2 B

