Technical Data Sheet

Formerly Known As: **Shell Morlina Oils**

Shell **Morlina** *S2 B 32*

- Reliable Protection
- Industrial Application
- Water Shedding

Industrial Bearing & Circulating Oils

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.

DESIGNED TO MEET CHALLENGES

Performance, Features & 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.

Main 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.

Specifications, Approvals & Recommendations

- Morgan MORGOIL® Lubricant Specification New Oil (Rev. 1.1) (MORGOIL is a registered trademark of the Morgan Construction Company)
- Danieli Standard Oil 6.124249.F
- DIN 51517-1 – type C
- DIN 51517-2 - type CL

  For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

- **Paint Compatibility**

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

Typical Physical Characteristics

Properties	Method	Morlina S2 B 32

Properties			Method	Morlina S2 B 32
ISO Viscosity Grade			ISO 3448	32
Kinematic Viscosity	@40°C	mm^2/s	ASTM D445	32
Kinematic Viscosity	@100°C	mm^2/s	ASTM D445	5.5
Density	@15°C	kg/m^3	ISO 12185	875
Viscosity Index			ISO 2909	110
Flash Point (COC)		°C	ISO 2592	226
Pour Point		°C	ISO 3016	-27
Rust, Distilled Water			ASTM D665A	Pass
Emulsion Test - @82°C (Unless specified by *)		Mins	ASTM D1401	10*
Oxidation Control Test : TOST		Hrs	ASTM D943	1500+
Oxidation Control Test : RBOT		Mins	ASTM D2272	500+
Foam Test, Seq II		ml foam at 0/10 mins	ASTM D892	5/0

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur. *@54°C

Health, Safety & Environment

- Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/
- **Protect the Environment**

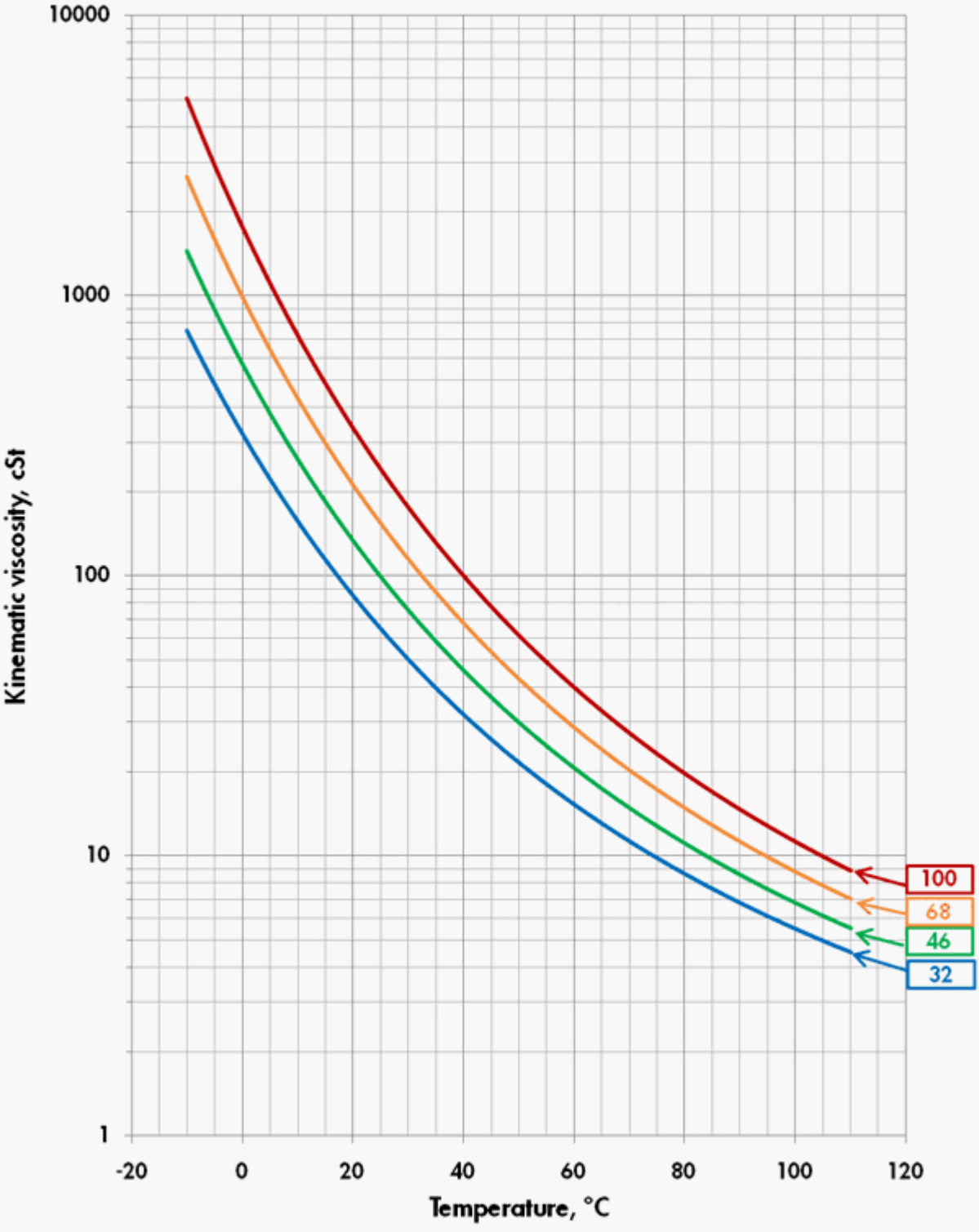
  Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

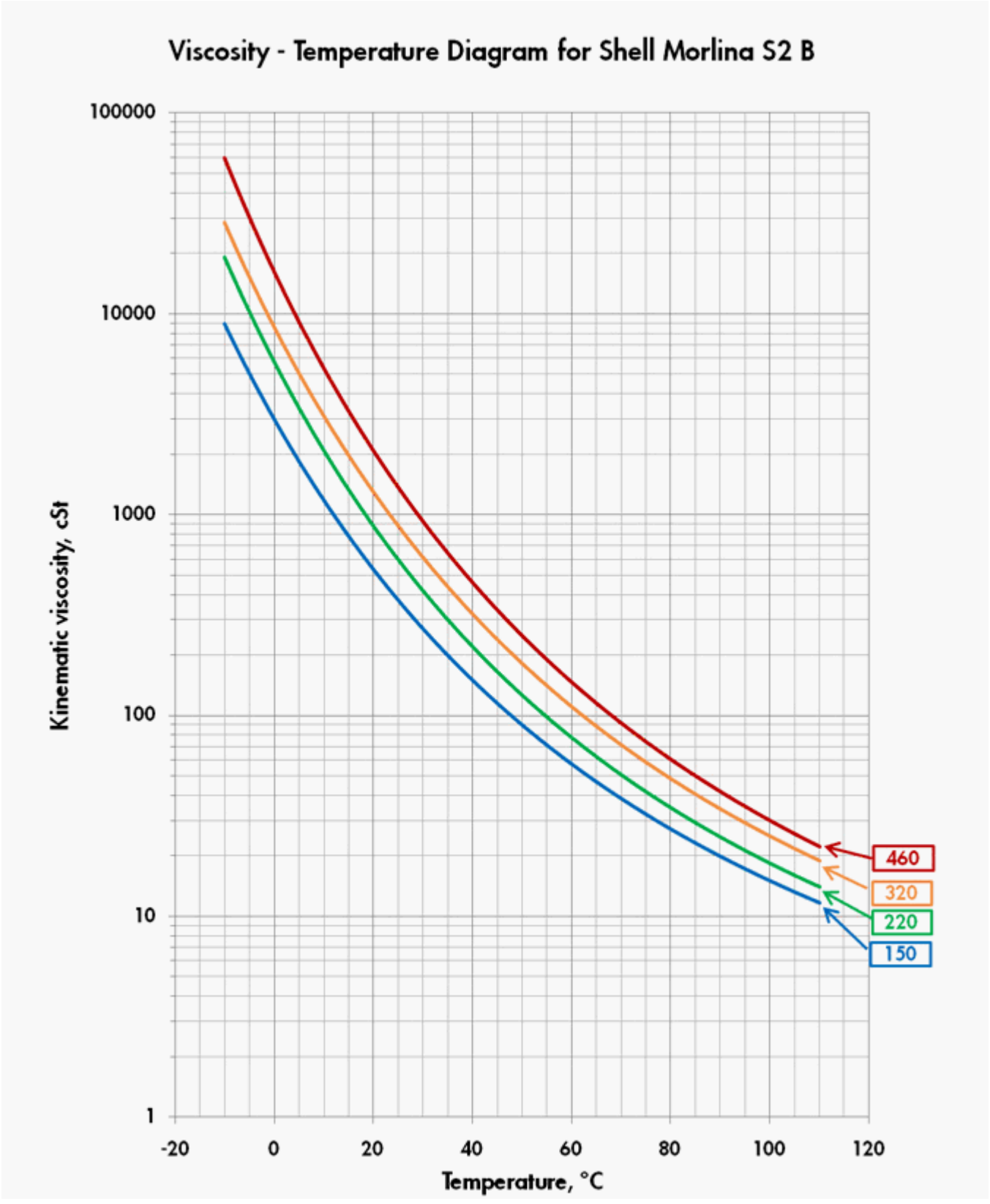
Additional Information

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.

Viscosity - Temperature Diagram for Shell Morlina S2 B




Viscosity - Temperature Diagram for Shell Morlina S2 B
Kinematic viscosity, cSt
100000
10000
1000
100
10
1
-20
0
20
40
60
80
100
120
Temperature, °C
460
320
220
150