



Formerly Known As: Shell Morlina Oils

# Shell Morlina S2 B 220

- 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

#### Typical Physical Characteristics

Properties	Method	Shell Morlina S2 B 220
ISO Viscosity Grade	ISO 3448	220
Kinematic Viscosity	@40°C mm <sup>2</sup> /s	ASTM D445 220

Properties			Method	Shell Morlina S2 B 220
<b>Kinematic Viscosity</b>	@100°C	mm <sup>2</sup> /s	ASTM D445	18.3
<b>Density</b>	@15°C	kg/m <sup>3</sup>	ISO 12185	891
<b>Viscosity Index</b>			ISO 2909	92
<b>Flash Point (COC)</b>	°C		ISO 2592	280
<b>Pour Point</b>	°C		ISO 3016	-15
<b>Rust, Distilled Water</b>			ASTM D665A	Pass
<b>Emulsion Test - @82°C (Unless specified by *)</b>	Mins		ASTM D1401	20
<b>Oxidation Control Test : TOST</b>	Hrs		ASTM D943	1300+
<b>Oxidation Control Test : RBOT</b>	Mins		ASTM D2272	400+
<b>Foam Test, Seq II</b>	ml foam at 0/10 mins		ASTM D892	10/0

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**

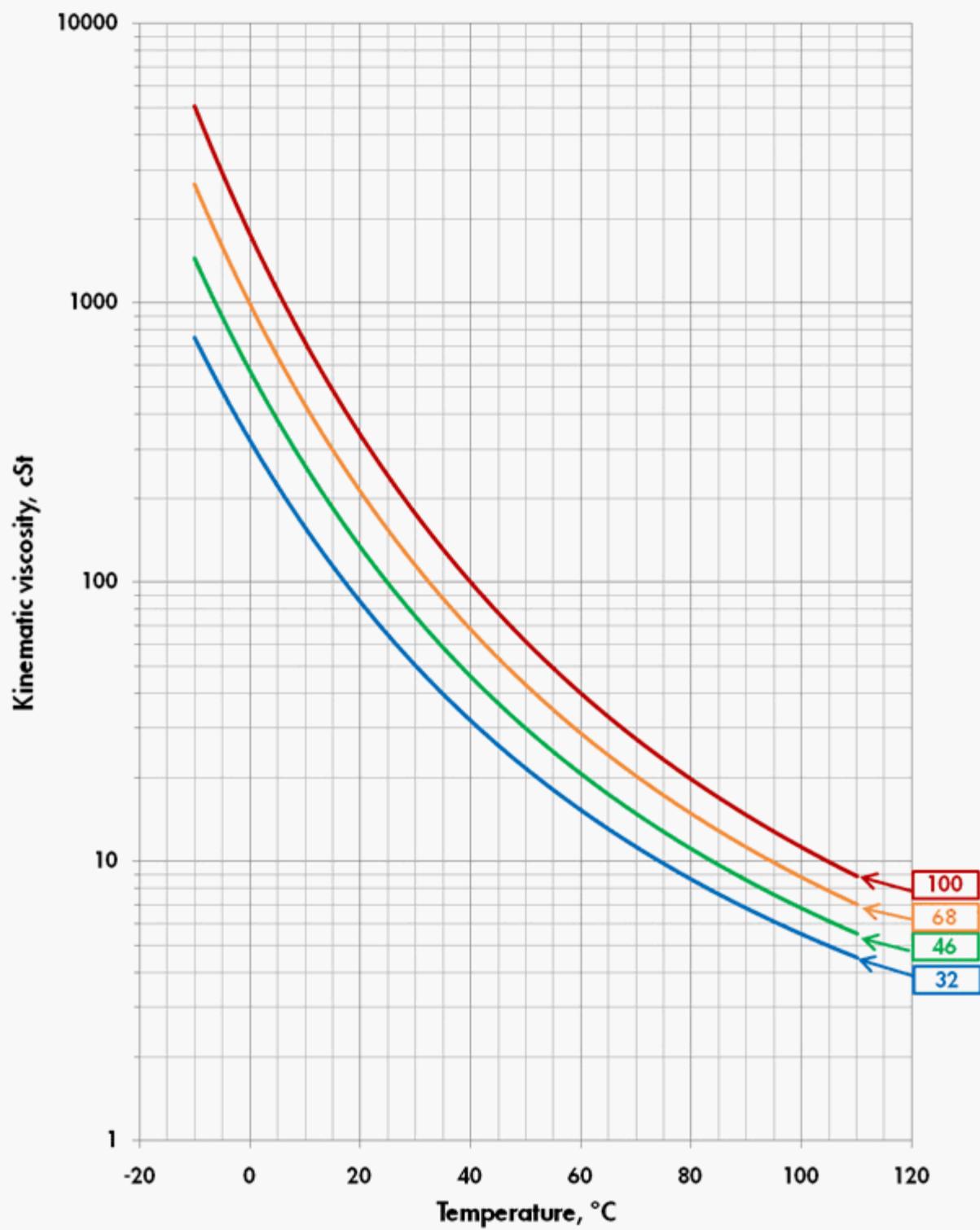
Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## Additional Information

- **Advice**

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

## Viscosity - Temperature Diagram for Shell Morlina S2 B



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