

Shell Morlina S4 B



- Extra long life
- Extra protection
- Severe applications



DESIGNED TO MEET CHALLENGES

Every part of your machine or process has been meticulously engineered, so you want to use a lubricant that has been designed to ensure that your equipment is well protected and works efficiently.

The Shell Morlina range of bearing and circulating oils has been developed to enable equipment operators to select the oil that will deliver optimum value to their operations through

- **wear protection**
- **long oil life**
- **system efficiency.**



Performance at a glance			
	Protection	Oil life	System efficiency
Shell Morlina S4 B ■ Extra long life ■ Extra protection ■ Severe applications	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓
Shell Morlina S2 B ■ Versatile protection ■ Industrial applications	✓✓	✓✓✓	✓✓✓✓

Performance level is a relative indication only.

AN ADVANCED SYNTHETIC BEARING AND CIRCULATING OIL

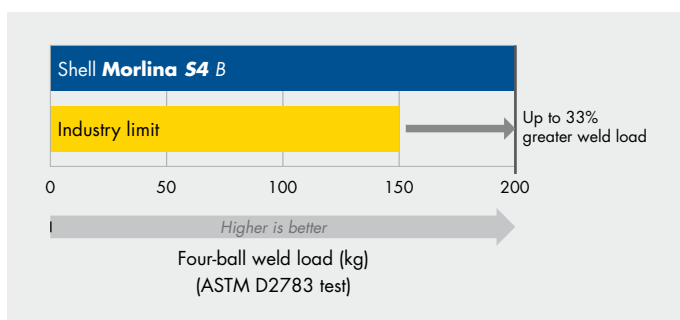
Shell Morlina S4 B uses advanced synthetic technology for outstanding lubrication performance. It has long oil life properties that can help your equipment to run for longer. It is recommended for moderately loaded gearboxes operating under severe conditions, such as low or high temperatures. It is also suitable for systems containing plain or rolling element bearings, and the highly loaded bearings found in cement or quarrying applications.

OUR EXPERTISE, YOUR REASSURANCE: Shell Morlina oils have been designed and developed in close co-operation with customers and equipment manufacturers, and have a proven track record in real-life applications. They are recommended or approved by leading equipment manufacturers and users around the world, so you can be assured of their quality and performance.

DESIGNED TO PROTECT

Protecting components from damage can help to increase service life and maximise your return on investment. Shell Morlina S4 B can help to achieve this by providing

- **up to 33% greater weld load**
than the industry minimum to help prevent seizure of moving parts.



Excellent wear protection

Shell Morlina S4 B offers excellent all-round performance for the protection of many types of gears and bearings found in industrial systems. It meets or exceeds the minimum industry requirements for gear wear¹ to help ensure protection of geared components in compressors.

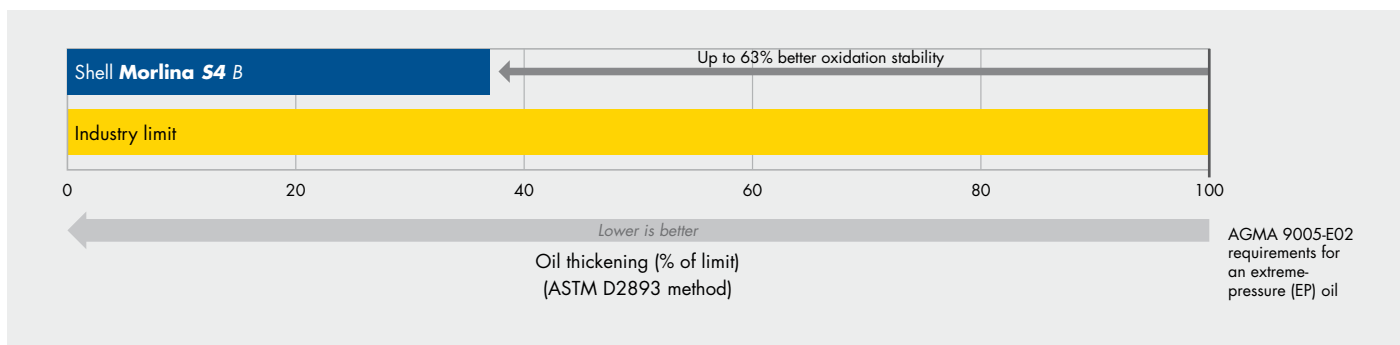
¹FZG test: Failure load stage 12 versus ANSI/AGMA 9005-E02 requirements for ISO 68-150 oils; greater than load stage 12 for ISO 220-1000

DESIGNED FOR LONG OIL LIFE

Shell Morlina S4 B clearly exceeds the minimum oil life requirements for many gear and bearing specifications, including those from industry bodies such as ANSI/AGMA and manufacturers including Cincinnati Machine. In the industry-standard test, Shell Morlina S4 B achieved

- **up to 63% better oxidation stability**

than the industry limit, for reduced maintenance requirements and enhanced productivity.

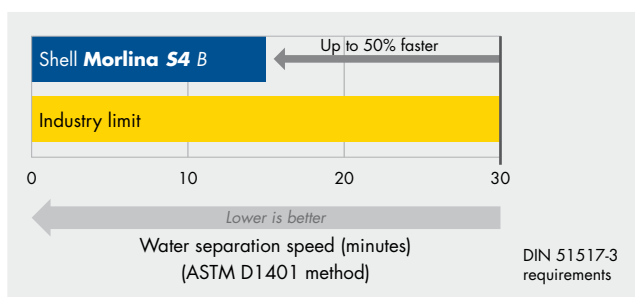


DESIGNED FOR SYSTEM EFFICIENCY

Water separation and control of foaming are essential for maintaining protective oil films and ensuring proper flow of lubricant to the moving parts of a machine. Shell Morlina S4 B offers

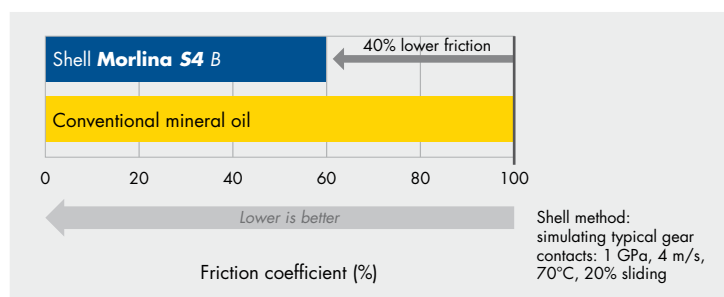
- **up to 50% faster water separation**

compared with the industry minimum requirements to help maximise efficiency



- **up to 40% lower friction**

than conventional oils to maximise the efficiency of industrial gears.



SPECIFICATIONS AND APPROVALS

Shell Morlina S4 B meets the requirements of a wide range of industry bodies and equipment manufacturers. ISO viscosity grades available: 68, 100, 150, 220, 320, 460, 680, 1000.

Meets requirements

Alfa Laval Group D (gearboxes)	David Brown
Aerzener Maschinenfabrik (blowers)	ISO 12925-1 type CKS
Baltimore Aircoil (gearboxes)	ISO 150 VG
Cincinnati Machine	

APPLICATIONS



Bearing and circulating oil systems – for use in systems containing plain or rolling element bearings



Severe conditions such as heavy loads and low or high operating temperatures



Moderately loaded gear boxes, where mild EP performance is required

For highly loaded systems where full EP protection is required, Shell Omala industrial gear oils are recommended.

REAL-WORLD VALUE DELIVERY

Shell Morlina S4 B has brought significant savings to operators of heavy industrial equipment and where operating conditions are hot and severe. By switching from a conventional product one customer reports

- increasing oil life by 400%
- reducing bearing damage
- increasing production by over \$80,000¹ worth of output a year.

FULL PRODUCT AND SERVICE PORTFOLIO

Whatever your needs or application, Shell can provide a full range of oils and greases, including synthetic, high-performance products and additional services.

¹Saving reported by one customer. Actual savings may vary, depending on the application, the current oil used, the maintenance procedures and the condition of the equipment.

For more information, please contact



shell.com/lubricants

