

Shell Corena S4 R



- Extra long life
- System efficiency
- 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 Corena range of air compressor 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 Corena S4 R SYNTHETIC ■ Extra long life ■ System efficiency ■ Severe applications	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓
Shell Corena S3 R ■ Long life ■ System efficiency	✓✓✓✓	✓✓✓✓	✓✓✓✓

Performance level is a relative indication only.

AN ADVANCED, SYNTHETIC ROTARY AIR COMPRESSOR OIL

Shell Corena S4 R is the ultimate Shell sliding-vane and screw rotary air compressor oil. It uses an advanced, synthetic, ashless-technology formulation to provide extended oil and equipment life. It is an oil that you can rely on to help keep your highest temperature and pressure rotary air compressors working efficiently for longer, and thus provide enhanced compressed air availability for increased productivity. It is widely recognised and approved by leading equipment manufacturers.

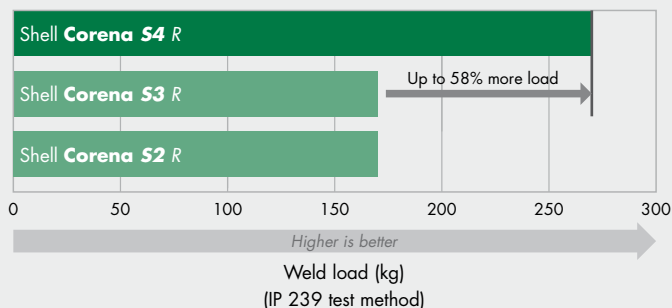
DESIGNED TO PROTECT

Protecting compressors from damage can help to increase service life and maximise your return on investment. Shell Corena S4 R offers

- **excellent protection across a wide temperature range**, as it is
- **up to 58% better four-ball weld-load performance** compared with Shell Corena S3 R, as it passes at 270 kg.

25% thinner at low temperatures compared with a conventional oil, which helps it flow to where protection is needed

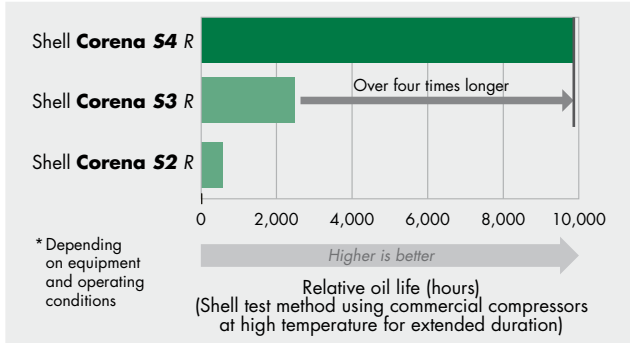
13% thicker at high temperatures compared with a conventional oil, which offers protection in hot, extended operating conditions.



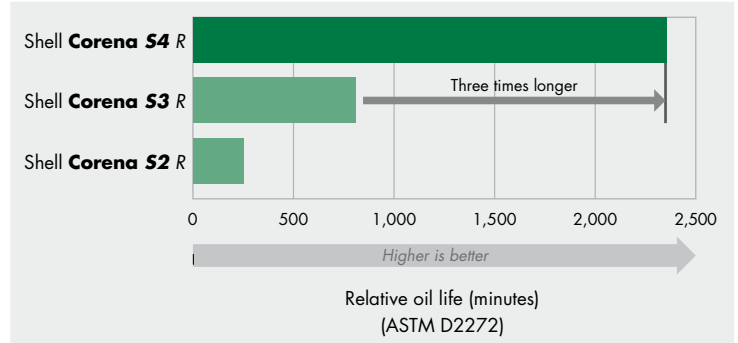
DESIGNED FOR LONG OIL LIFE

Limiting fluid degradation can help to prolong oil life. Shell Corena S4 R is designed to help you operate your compressors for longer without interruption – for reduced maintenance requirements and enhanced productivity. Shell Corena S4 R delivers

- **up to 12,000 hours' oil life in service***, which is over four times longer than Shell Corena S3 R, as demonstrated in extended Shell Hydrovane tests running at 120°C. This test is two to three times more severe than normal operations at around 100°C.



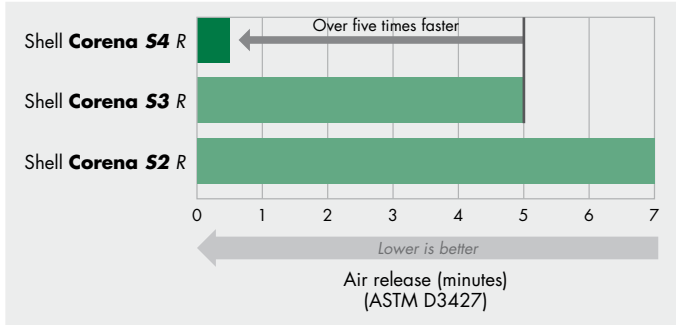
- **over three times the oil life** compared with a premium air compressor oil such as Shell Corena S3 R in industry-standard oxidation tests.



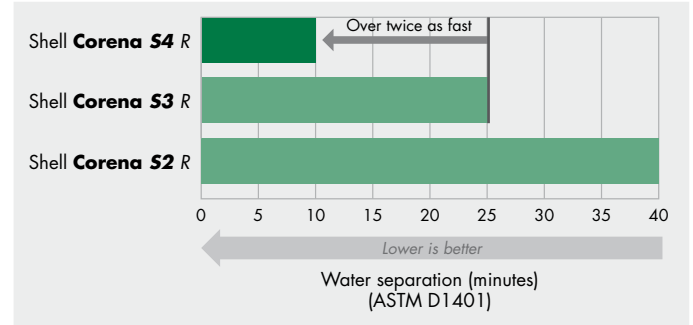
DESIGNED FOR SYSTEM EFFICIENCY

Deposits, air bubbles in the oil and foaming can reduce rotary compressor efficiency. Shell Corena S4 R helps to maintain the constant supply of compressed air that you need for efficient operations by offering

- **over five times faster air release** than Shell Corena S3 R, which helps to improve lubrication and prevent cavitation damage



- **over twice the water separation rate** of Shell Corena S3 R, which helps to ensure efficient protection and lubrication.



SPECIFICATIONS AND APPROVALS

Shell Corena S4 R is suitable for compressors from a wide range of manufacturers, and is available in viscosity grades ISO 32, 46 and 68.

Claims and approvals	Meets requirements
ABB for use in VTR turbochargers with a maximum oil-drain interval of 5,000 hours (HZTL 90617, list 3a)	ISO 6743-3A-DAJ

APPLICATIONS



Rotary air compressors – suitable for most sliding-vane and screw compressors, including oil-flooded and oil-injected systems. Excellent performance at air discharge temperatures of over 100°C and at pressures up to 25 bar



High-temperature applications – for use where exceptionally high ambient air temperatures are found and where the oil cannot be adequately cooled to normal levels



Exceptional stability – for oil-drain intervals of up to 12,000 hours or approximately three years of typical factory operation

REAL-WORLD VALUE DELIVERY

Users of Shell Corena S4 R across a wide range of industries are benefiting from changing to the oil. Customers are increasing production and cutting maintenance costs by

- typically increasing oil-drain intervals by 100% compared with conventional oils
- extending equipment service life: one cement company is running its compressors for three times longer between overhauls
- reducing the high operating temperatures caused by thickening of the original oil, which prevented the oil valves from working efficiently.

FULL PRODUCT AND SERVICE PORTFOLIO

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

For more information, please contact

shell.com/lubricants

