



FROM IMPROVING OPERATIONS TO ACHIEVING INDUSTRIAL EXCELLENCE

SHELL CORENA MAKES IT POSSIBLE

Shell Corena air compressor oils enable equipment operators to select the oil that will help to deliver optimum value to their operations through enhanced wear protection, long oil life and high system efficiency.

SHELL LUBRICANTS
TOGETHER ANYTHING IS POSSIBLE



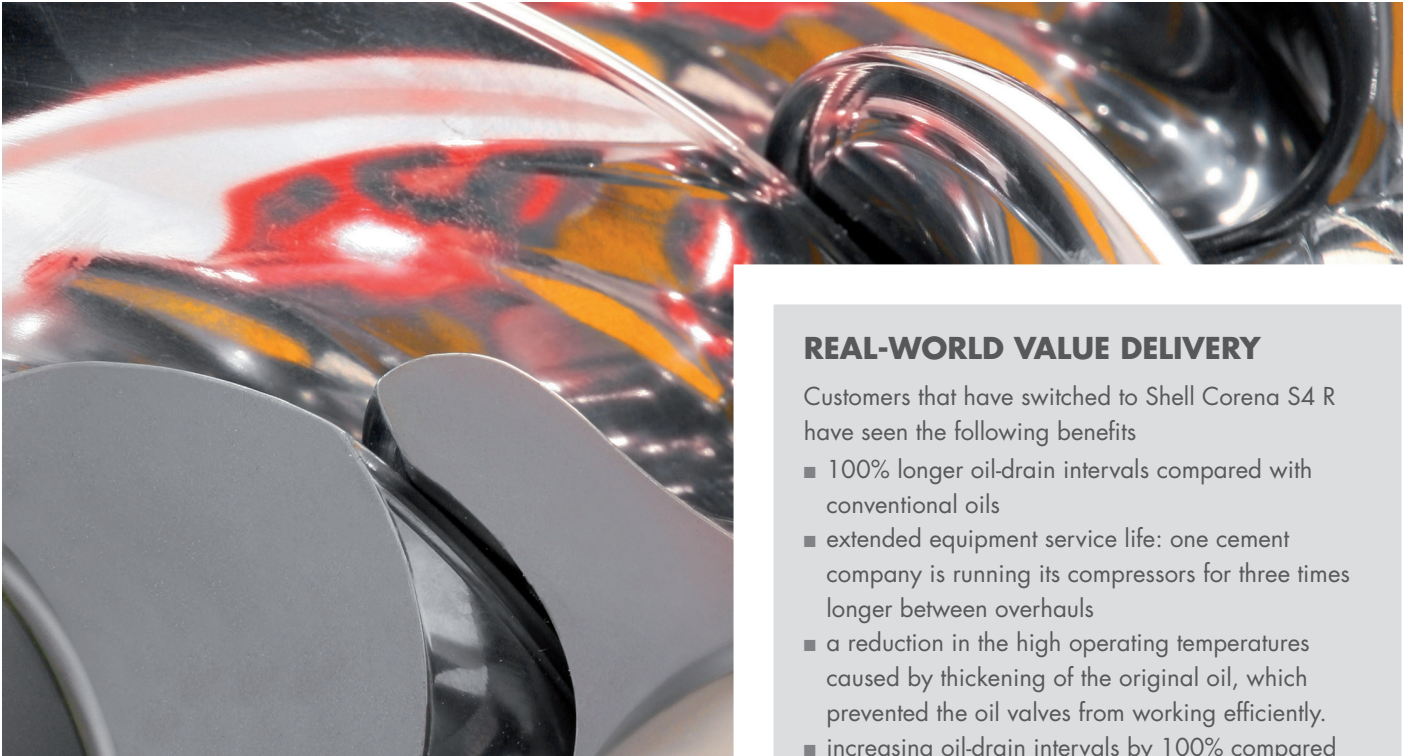
EVERY PART OF YOUR MACHINE OR PROCESS HAS BEEN METICULOUSLY ENGINEERED, SO YOU WANT TO BE SURE THAT YOU CHOOSE A LUBRICANT THAT HAS BEEN DESIGNED TO ENSURE THAT YOUR EQUIPMENT IS WELL PROTECTED AND WORKS EFFICIENTLY.

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 enhanced wear protection, long oil life and high system efficiency.**

A RANGE OF AIR COMPRESSOR OILS TO MEET YOUR NEEDS

To meet the challenges of a wide range of air compressors and applications, Shell has designed a portfolio of oils that enables you to choose a product to match your needs.

		SHELL CORENA "R" RANGE Rotary vane and screw air compressor oils for use in stationary and mobile air compressors		SHELL CORENA "P" RANGE Reciprocating (piston) air compressor oils for safe and reliable operation in demanding high-pressure applications	
↑ INCREASINGLY EFFICIENT PROTECTION	ADVANCED TIERS 4 AND 5	Shell Corena S4 R	Shell Corena S5 R	Shell Corena S4 P	
		<p>SYNTHETIC</p> <ul style="list-style-type: none"> ■ Extra long life ■ Excellent efficiency ■ Severe applications ■ Polyalphaolefin fluid 	<p>SYNTHETIC</p> <ul style="list-style-type: none"> ■ Extra long life ■ Low deposit formation ■ Severe applications ■ Polyalkylene glycol fluid 	<p>SYNTHETIC</p> <ul style="list-style-type: none"> ■ Extra long life ■ Improved efficiency ■ Severe applications 	
	PREMIUM TIER 3	<p>Customers looking for longer oil life, better protection and system efficiency in Tier 4 or 5 should choose Shell Corena S4 R or Shell Corena S5 R based on their application (polyalphaolefin or polyalkylene glycol) and equipment specifications.</p>		<p>Shell Corena S5 R is compatible with leading equipment manufacturers' polyalkylene glycol compressor fluid such as Ingersoll-Rand Ultra Coolant and Sullair Sullube. Customers who wish to change from a mineral or polyalphaolefin-based compressor oil such as Shell Corena S4 to polyalkylene glycol-based Shell Corena S5 R will need to follow the correct change-over procedures. However, it is unlikely that such a changeover would be required because, if a polyalkylene glycol oil is specified, this will have been used from the start of operation.</p>	<p>↑ IMPROVED PROTECTION AND LONGER OIL LIFE</p>
		Shell Corena S3 RX	<p>SYNTHETIC</p> <ul style="list-style-type: none"> ■ Long life ■ Excellent system efficiency 		
Shell Corena S3 R	<ul style="list-style-type: none"> ■ Long life ■ High efficiency 				
MAINLINE TIER 2	<p>Shell Corena S2 P</p> <ul style="list-style-type: none"> ■ Reliable protection ■ Standard life applications 				
		<p>PRODUCT NAME SUFFIX KEY</p> <p>P = High pressure/reciprocating (piston) air compressors</p> <p>R = Rotary vane and screw air compressors</p>	<p>APPLICATION ICON KEY</p> <ul style="list-style-type: none"> High temperature Mobile compressors Rotary vane and screw air compressors Factory/machine applications Reciprocating (piston) air compressors 		



PERFORMANCE YOU CAN COUNT ON

Shell's air compressor oils are developed in close co-operation with customers and equipment makers. The Shell Corena range is well known to equipment makers, and its performance has been demonstrated in real-life applications to help reduce the possibility of your equipment letting you down.

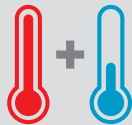
REAL-WORLD VALUE DELIVERY

Customers that have switched to Shell Corena S4 R have seen the following benefits

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

SYSTEM EFFICIENCY

Shell Corena oils are designed to promote system efficiency by suppressing foaming, releasing trapped air and rapidly separating out condensed water



The GTL base oil in Shell Corena's synthetic products give them a higher viscosity index and lower pour point than mineral-based oils. This means that the oils remain close to their optimal viscosity over a wider range of ambient temperature.

WEAR PROTECTION

The Shell Corena range includes dedicated rotary compressor oils designed to control vane and screw wear, and oils for reciprocating compressors specifically to control cylinder, piston-ring and valve wear.

The range incorporates the latest synthetic oils – **Shell Corena S5 R, Shell Corena S4 R** and **Shell Corena S3 RX** – for enhanced wear protection in high-temperature conditions and for extended operations.

LONGER OIL LIFE

The longer an oil's life, the less fluid maintenance your equipment requires, so it can continue to operate without interruption.

UP TO

10,

HOUR OIL-DRAIN INTERVALS, EVEN IN REGIONS OF HIGH TEMPERATURES OR HUMIDITY



PRODUCT	BENEFITS	TECHNOLOGY	ISO VISCOSITY GRADES	SPECIFICATIONS AND APPROVALS <small>(Full details of approvals for all products can be obtained from your Shell representative; approvals and claims will vary by viscosity grade.)</small>
Shell Corena S5 R	<ul style="list-style-type: none"> ■ Extra long life ■ Low deposit formation ■ Severe applications ■ Polyalkylene glycol fluid ■ Rotary air compressors 	Synthetic	37, 46	Industry standards: ISO 6743-3: 2003 L-DAJ
Shell Corena S4 R	<ul style="list-style-type: none"> ■ Extra long life and improved efficiency ■ Severe applications ■ Rotary air compressors ■ Polyalphaolefin fluid 	Synthetic, advanced ashless	32, 46, 68	Approved by: Shell Corena S4 R 68 is approved by ABB for use in VTR turbochargers with a maximum oil-drain interval of 5,000 hours (HZTL 90617, list 3a) Industry standards: ISO 6743-3A DAJ
Shell Corena S4 P	<ul style="list-style-type: none"> ■ Extra long life and improved efficiency ■ Severe applications ■ Reciprocating air compressors 	Synthetic, advanced additive system	68, 100	Industry standards: ISO 6743-3: 2003 DAB (severe duty); DIN 51506 VDL/DP 6521-L-DAB (medium duty); EN 12021
Shell Corena S3 RX	<ul style="list-style-type: none"> ■ Long life ■ Excellent system efficiency ■ Rotary air compressors 	Synthetic	32, 46, 68	Industry standards: ISO 6743-3: 2003 L-DAJ
Shell Corena S3 R	<ul style="list-style-type: none"> ■ Long life ■ Improved efficiency ■ Rotary air compressors 	Conventional, advanced additive system	32, 46, 68	Industry standards: ISO 6743-3A DAH, DAJ
Shell Corena S2 P	<ul style="list-style-type: none"> ■ Reliable protection ■ Standard life applications ■ Reciprocating air compressors 	Conventional	68, 100, 150	Industry standards: ISO 6743-3A DAA (normal duty)

Some Shell Corena compressor oils in the R series will meet the lubrication requirements of positive displacement compressors requiring similar viscosity grades.

FULL PRODUCT AND SERVICE PORTFOLIO

Shell Lubricants is the market leader in lubricants and has a 60-year history of innovation. It constantly invests to develop better lubrication solutions, including advanced synthetic technologies such as

- **Shell Omala S4 GX synthetic gear oil** – for long life in demanding environments
- **Shell Tellus S4 ME synthetic hydraulic oil** – for long life and energy saving.

In addition, Shell provides the world-leading Shell LubeAnalyst oil condition monitoring service, which is designed to help improve your business performance.

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

"Shell Lubricants" refers to the various Shell companies engaged in the lubricants business.



For more information, please contact your Shell Lubricants representative.
www.shell.com/lubricants