

Shell Corena Oil P

Premium quality air compressor lubricant



Shell Corena P is a premium quality reciprocating air compressor lubricant. It is based on a blend of Shell XHVI and specially selected base oils to provide a level of performance approaching that of synthetic oils.

Applications

- **Reciprocating air compressors**
All industrial reciprocating air compressors up to a discharge air temperature of 220°C
- **Breathing air compressors**
Shell Corena P150 is approved for the use in BAUER breathing air compressors.

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Performance Features and Advantages

- **Prolonged service intervals**
Allows the interval between valve and piston maintenance to be extended. Compressors can be kept in service for much longer periods operating at a consistently high level of efficiency.
- **Safe air lines**
In discharge air-lines, the combination of rust particles, dispersed in carbonaceous deposits, coupled with heat from recently compressed air, can cause an exothermic reaction from which fire and explosion can occur. Shell Corena P helps to prevent this danger arising.
- **Very good oxidation resistance**
Resistant to the formation of carbon deposits and lacquer on valves and piston crowns, caused by the by-products of corrosion, such as ferric oxides and hydroxides, at high working temperatures and pressures. Such deposits can cause serious damage, lower compressor efficiency and increase maintenance costs.
- **Very good rusting and wear protection**
Effectively protects all metal surfaces from corrosion. Protects all sensitive machinery parts, e.g. housings, valves, bearings, from wear and prolongs the service intervals.

- **Very good air release and anti-foam properties**

The careful choice of additives ensure quick air release without excessive foaming.

- **Very good water separation properties**

Shell Corena P separates readily from water allowing excess water to be drained from the oil circulation system, thus preventing accelerated corrosion and a reduction in lubrication efficiency.

Specification and Approvals

DIN 51506 VDL
ISO 6743-3A-DAB

Corena P150 is approved from BAUER according to "BAUER reference oil list for breathing air compressor lubricants".

Seal compatibility

Shell Corena P is compatible with all sealing materials commonly used in air compressors.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.

Protect the environment

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

Typical Physical Characteristics

Corena P			68	100	150
ISO Viscosity grade		ISO 3448	68	100	150
Performance Standard		DIN 51506	VDL 68	VDL 100	VDL 150
Kinematic viscosity		ASTM D445			
at 40℃	mm ² /s		68	100	155
at 100℃	mm ² /s		7,8	9,2	12,1
Density at 15℃	kg	ASTM D1298	883	899	902
Flash point (COC)	℃	ASTM D92	235	240	240
Pour point	℃	ASTM D97	-33	-33	-30
Neutralisation value	mg KOH/g	ASTM D974	0,3	0,3	0,3
Sulphated ash	%m	DIN 51575	0,06	0,06	0,06
Oxidation stability (delta-CCR)	%m	DIN 51352-2	1,8	2	2,3
Properties of the distillation					
residue (20 %)					
Carbon residue (CCR)	%m	DIN 51551	0,3	0,3	0,3
Kinematic viscosity at 40℃	mm ² /s	DIN 51562	100	160	280
Rust prevention (steel)	degree	ASTM D665	0-A	0-A	0-A
Water separability		ASTM D1401			
at 54℃	min	ASTM D1401	30	-	-
at 82℃	min		-	20	20

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