

SULZER BURCKHARDT

Lubricating oil list for labyrinth piston compressors

General

The labyrinth piston compressor does not require cylinder lubrication. The oil is needed for the forced feed lubrication of the plain bearings.

Requirements

Circulating oil of ISO viscosity between 100 and 150 with inhibitors to control oxidation, corrosion and possible foaming. It should be free of acids, alkalis and asphaltenes. Examples are listed below.

Compressors running at 700 rpm or below, require oil of ISO viscosity grade 150.

Manufacturer	Type of oil	Viscosity at 40°C in mm ² /s (cSt)	Viscosity at 100°C in mm ² /s (cSt)
AGIP	ACER 100	100	11.4
	ACER 150	141	14.4
BP	ENERGOL CS 100	96	10.8
	ENERGOL CS 150	150	14.6
CALTEX	REGAL OIL R&O 100	93	11.2
	RANDO OIL 150	140	14.0
CASTROL	HYSPIV VG 100	100	11.1
	HYSPIV VG 150	150	14.5
CHEVRON	MACHINE OIL R&O 100	95	10.8
	MACHINE OIL R&O 150	143	14.3
ELF	POLYTELIS 100	99	11.1
	POLYTELIS 150	149	14.8
EXXON	NUTO 100	92	10.7
	NUTO 150	151	14.7
MOBIL	VACUOLINE 128	150	14.6
SHELL	TURBO T 100	100	11.1
	TELLUS C 150	150	13.6
TEXACO	REGAL OIL R&O 100	93	10.5
	REGAL OIL R&O 150	141	13.2
TOTAL	CORTUSA 100	100	11.0
	CORTUSA 150	150	13.5

Oil change

During the first year of service, the oil has to be changed twice, thereafter once a year. The crankcase is to be cleaned with a sponge, oil cooler and filter to be washed out.

In case of severe running condition the oil should be checked at regular intervals and changed accordingly. A water content of 0.2 % and a neutralisation number of 0.2 (mg KOH/g) should not be exceeded.

SULZER-BURCKHARDT does not accept any liability as to the quality and performance of the oil in use.