



ESG Service Information

File In/With:	SK Manual Behind General Tab	SI0025	
		New	6-02
Equipment Affected:	YS Chillers Using S2, S3, S4 & S5 Compressors		
Oil Requirements for R-22 Applications			

General

Compatibility

YORK “S” oil replaces YORK “F” oil in YS R-22 model chillers using S2, S3, S4 and S5 compressors . The decision was made to use this oil based on superior oil separation and lower shaft seal face operating temperatures.

YORK “S”, YORK “F” and YORK “G” are complex molecule POE oils. YORK “S” oil is a polyolester (POE) oil with a viscosity of 85 cS and an antioxidant additive. YORK “P” oil has a viscosity of 150 cS and YORK “G” oil has a viscosity of 320 cS. This family of complex molecule POE oils is compatible and miscible with each other in all concentrations. Special clean out or flushing procedures are NOT required when changing from YORK “P” or “G” oils to YORK “S” oil.

YORK “S15 and YORK “S30” oils are alkylbenzene based oils. YORK “S” oil is NOT compatible with YORK “S15” or YORK “S30” oils. Never mix YORK “S” oil with any other oil except YORK “P” or YORK “G” oils. Flushing is required when changing from the “S15” and/or “S30” oils.

YORK “S15” oil was used in production from 1983-1989 in the following applications:

- For positive displacement hermetic compressors, except “J” and “S” at all evaporator temperatures.
- For compressors in systems with flooded evaporators and dry expansion evaporators at evaporator temperatures below -20° F.

YORK “S15” oil was used after 1989 in special applications and equipment may have been field converted to YORK “S15” oil.

YORK “S30” oil was used in production from 1983-1989 in the following applications.

- For evaporator temperatures -20° F and higher
- For all halogenated refrigerants (R-11, R-12, R-22, R-114 and R-500, etc)
- For reciprocating VW compressors
- For all SC and IS rotary screw compressors
- For Turbomaster, except Series “ ”

YORK “S30” oil was used after 1989 in special applications and equipment may have been field converted to YORK “S30” oil.

Do not use YORK “S15” or “S30” in YORK YS rotary screw chillers.

Changing Oil

Drain oil from the oil separator and from both pressure access fittings on the bottom of the slide valve cylinder. Refill with YORK “S” oil, making certain to fill the outboard side of the slide valve cylinder with YORK “S” oil prior to starting the chiller.

COMPRESSOR	R-22 REFRIGERANT	R-134A REFRIGERANT
S0	YORK “C” Oil	YORK “H” Oil
S1	YORK “C” Oil	YORK “H” Oil
S2	YORK “S” Oil (Note 1)	YORK “H” Oil
S3	YORK “S” Oil (Note 2)	YORK “H” Oil
S4	YORK “S” Oil (Note 2)	YORK “H” Oil
S5	YORK “S” Oil (Note 2)	YORK “H” Oil
S7	YORK “C” Oil	—
Note 1: Formerly YORK “C” oil Note 2: Formerly YORK “P” oil or YORK “G” oil		

Warranty - S2 Chiller Shaft Seal Replacement (R-22)

When replacing a shaft seal on a S2 (193 S) compressor that is in warranty, change the oil to YORK “S” oil. The warranty system will accept the cost of two, five gallon containers of YORK “S” oil (p/n 011-00922-000) as part of the warranty expenses to replace the shaft seal

NOTE: Oil changes and shaft seals out of the warranty period will not be approved for warranty without pre-authorization from the YS Product Service Manager in York, PA.

Out of Warranty - S2 Chiller Shaft Seal Replacement (R-22)

For “Out of Warranty” shaft replacements, it is strongly recommended that the lubricant be upgraded to YORK “S” oil when the shaft is replaced.

MSDS sheets and Physical Properties Data Sheets for all YORK oils used in YS Rotary screw chillers are available on the YORK intranet.