



July 5, 2017

TRANE SCROLL COMPRESSOR TECHNICAL BULLETIN

ComStar has investigated the design of TRANE Scroll compressors and have determined that the Trane scrolls lubricate the top crankshaft bearing through a hole in the vertical crankshaft. This makes them susceptible to damage if there is not a sufficient amount of oil carried by the suction gas. Therefore, ComStar is recommending the use of POE oil for Trane Scroll compressors when using RS-44b (R453a) or ANY R22 replacement refrigerant. To be clear, ALL R22 alternative refrigerants will re-act the same in Trane Scroll compressors due to this compressors design

ComStar has not been able to do extensive research on the design of scrolls manufactured by other compressor OEMs. **Therefore, for the time being, you will be safe to say that compressors that use the “suction gas” to carry oil will need to run with POE oil, not mineral or alkybenzene oils.**

At this time, ComStar’s initial findings indicate that the Copeland scrolls do not use suction gas to move oil. However, we are still researching this point. We will advise more on the various scrolls in the market place as that info becomes known to us.

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