
06D OIL PRESSURE & VARIABLE SPEED

Carlyle Compressor has recently determined that a modification in the oil pressure regulator used in the 06D (and "D" body 06CC) compressors can allow the oil pressure to fall below the oil safety switch trip setting when applied with variable speed drives. As the speed of the compressor is reduced, the flow of the oil pump is also reduced and, with it, the oil pressure. This low oil pressure occurs in 06D body compressors when operated below 40 to 45 hertz (1160 to 1300 rpm). To avoid the potential for nuisance oil safety switch trips, the compressor must be operated above 45 hertz or the compressor must have the oil pressure regulator changed. Note: The 06E body compressors (this includes "E" body 06CC models) still have an oil pressure regulator that maintains adequate oil pressure down to 30 hertz (875 rpm), the minimum speed recommended by Carlyle.

To accommodate applications with variable speed, Carlyle is converting all 06DR and 06DM models back to the older oil pressure regulator design. Models built after serial number **4695J00001** will have the older oil pressure regulator and the capability of operating down to 30 hertz (875 rpm). In the meantime, on 06D compressors built between 2694J00001 and 4695J00001 or any 06DA or 06DF high temperature models, a change in the oil pressure regulator is required to operate below 45 hertz. For those customers wishing to make the conversion of this regulator at their facility, the part number of the required regulator is 6D23-522. To replace this oil pressure regulator requires the removal of the compressor bottom cover and the replacement of the bottom cover gasket. The required bottom cover gaskets are shown below.

BOTTOM COVER GASKETS FOR:

***2 & 4 CYLINDER 06D
6 CYLINDER 06D
06CC "D" BODY***

***6D40-1043
6D68-1043
6D68-1043***

If Carlyle has compressors in its inventory within this serial number range for operation in variable speed applications, Carlyle is willing to make this conversion at our facility if given enough lead time. Please contact your Carlyle order correspondent to make this request.
