

Proven Solutions for the Global Compression Industry™

Proper Lubrication Rates & Proflo® EOS Self-Adjusting Lubrication Pump Extend Compressor Life



The Challenge

The original valves on OEM 2 & 3 stage units in a midstream natural gas application were only running 4 to 6 weeks before experiencing higher temperatures and eventual failures. The customer loses \$5K-\$7K each day in lost gas production and maintenance man hours when the units go down.

1,350 RPM / Suction 650 PSI (44 bar) / final discharge 1,200 PSI (82 bar)

Solution Highlights

The customer significantly reduced the lube rate based on CPI's lube study and then installed the new Proflo® EOS self-adjusting lubrication pump.

A month after the trial the upgraded JGT-4 compressor was also compressing more gas than the other two JGT-4 compressors.



The Solution

CPI ran a lube study on each throw of the two stage compressor. We found that the unit was being improperly lubricated.

As part of the lubrication optimization we installed the new Proflo® EOS self-adjusting lubrication pump, which monitors the amount of lubrication oil passing through a divider block and adjusts it accordingly based on a user's setpoint. It also adjusts to maintain the setpoint even when the pump begins to wear.

CPI developed the Proflo® EOS to replace the manual pump adjustment that can lead to over- or under-lubrication of reciprocating compressors. Because lubrication is essential to the performance and health of a compressor, having a device that can automatically adjust lube levels ensures equipment longevity.

They have now installed CPI's Proflo® EOS and packing in all of the same compressors with no problems and are actively moving forward to upgrade all new sites & units coming in with CPI products and will convert all of their other units in 2020.



Annual Lube Oil Cost Savings per compressor = 12,330 USD

Gallons per Year: 373 / 1,414 Liters per Year

Barrels per Year: 8.8

Estimated Cost: Gallon 32.98 USD / Liter 8.72 USD

BASED ON A 350 DAY RUN CYCLE