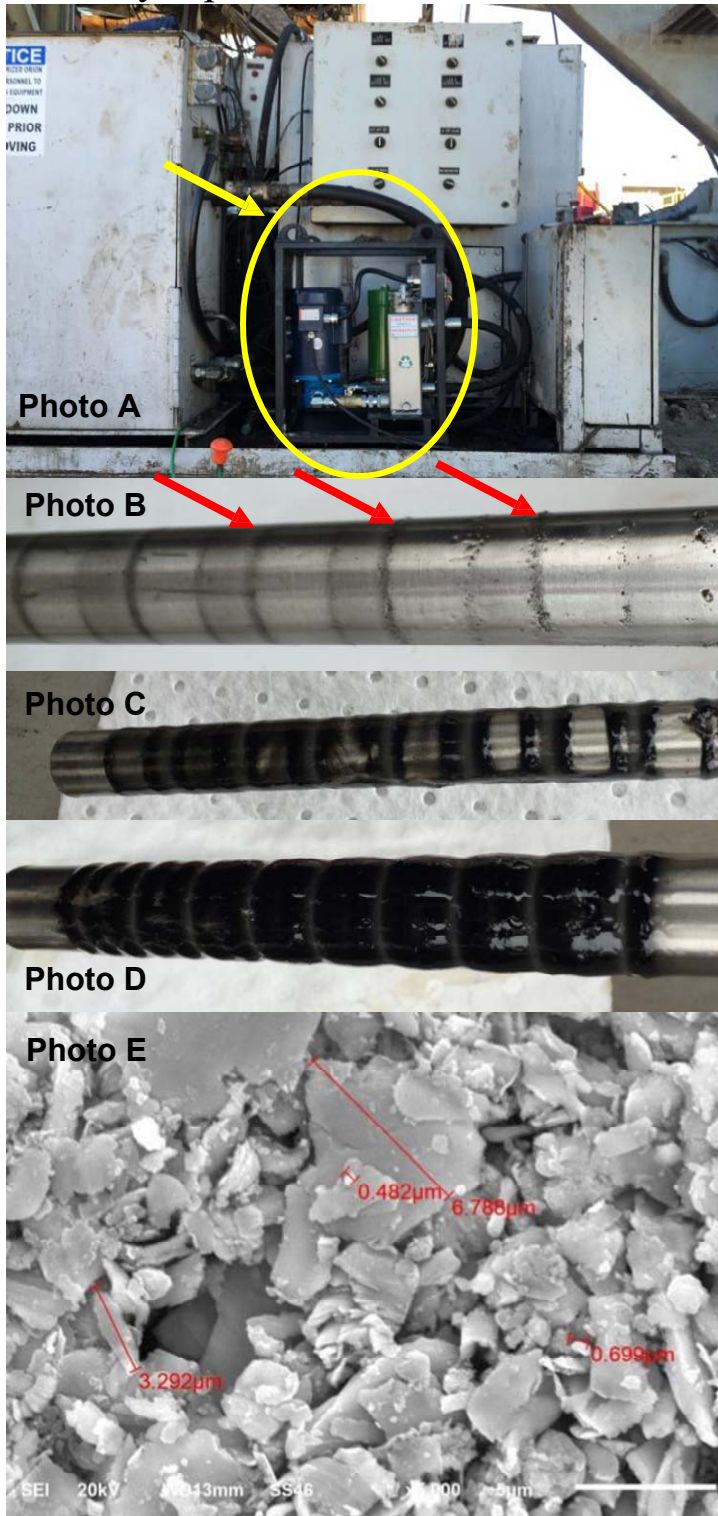


Case Study: Hydraulic Filtration February-April 2015



Orion Drilling (Southern Cross Rig) Corpus Christi, Texas

APPLICATION: Hydraulic Fluid Filtration on HPU reservoir.

PROBLEM: Contaminated hydraulic fluid caused a cylinder to fail. The traditional filters were unable to remove the contamination efficiently to protect the system components.

SOLUTION: Luis Reyes of Applied Industrial Technologies recommended installing OEI's 8KLF-51-91 3 stage kidney loop to remove the contamination to sub-micron levels (Photo A).

RESULTS: Photo B shows the contamination removed after the first 4 minutes. Photos C & D demonstrate the contamination removed after two weeks (Scrubber Photo C, ADD-Vantage 9000 Photo D).

The magnetic filter removed 73.9% ferrous, 14.6% non-ferrous and 11.5% water particles, to sub-micron levels (Photo E), including a number of pieces of rubber (hydraulic hoses) and gasket (cylinder seal) that were wearing in the system. By removing this contamination the wear to system components is reduced, increasing the uptime of the Rig.

RECOMMENDATION: Install OEI custom kidney loops on Hydraulic Power Units to increase system function and reliability.

For more information, contact our office at 403-242-4221 or visit our website at www.oneeyeindustries.com