



CASE STUDY

CUSTOMER

ORION DRILLING

LOCATION

CORPUS CHRISTI, TX USA / 2015

EQUIPMENT

HYDRAULIC PRESSURE UNIT RESERVOIR

APPLICATION

HYDRAULIC FLUID

PROVEN RESULTS



SUB-MICRON WEAR CONTAMINATION CAPTURED

UNSCHEDULED DOWNTIME REDUCED

CHALLENGE

Capture wear contamination down to sub-micron levels to prevent another cylinder failure caused by wear contamination in the hydraulic fluid.

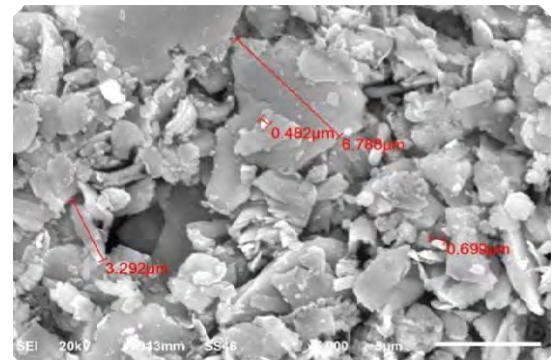
SOLUTION

Replace the conventional HPU filter with an OEI 3-stage kidney loop system to capture and remove contamination down to sub-micron levels.

RESULTS

Within 4 minutes of initial operation, significant contamination capture was realized. Photos show contamination captured after 2 weeks and 4 weeks of the scrubber being in operation.

Analysis showed the contamination collected was comprised of 73.9% ferrous, and 14.6% non-ferrous sub-micron sized particles. Non-ferrous particles in the system included water (11.5%) and pieces of rubber (hydraulic hose, gasket, and cylinder seal). The efficient removal of contamination from the fluid reservoir reduced wear to the system and increased system uptime saving both time and money.



CONTAMINATION CAPTURED AFTER 4 MINUTES



MAGNETIC FILTER SCRUBBER AFTER 4 WEEKS



ADD-VANTAGE 9000 AFTER 4 WEEKS



PRODUCT RECOMMENDATION
KIDNEY LOOP SYSTEM

