CUSTOMER

PRECISION DRILLING LOCATION DRAYTON VALLEY, AB CANADA / OCT 2014 EQUIPMENT MUD PUMP APPLICATION LUBE OIL

PROVEN RESULTS



EXTENDED OPERATIONAL CYCLES

REDUCED MAINTENANCE COSTS

CHALLENGE

Traditional filtration was unable to remove the inherent contamination under 10 microns during start-up. This contamination was from the new oil, break- in wear and the manufacturing process and if left in the system this results in premature wear to the bearings, shafts, and seals affecting equipment function.

SOLUTION

Install an OEI magnetic filter scrubber in order to protect the integral system components.

Precision Drilling has been utilising OEI magnetic filtration technology on their hydraulic equipment for 3 years with great results. They determined that their mud pumps could use the same technology to protect them on start up and extend their operational life.



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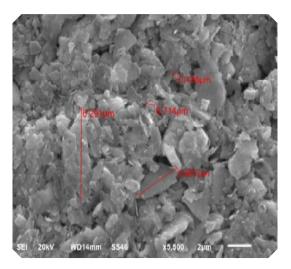


RESULTS

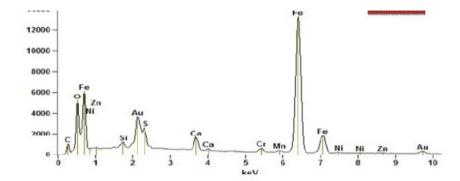
During the first 200 hours 10+ ounces of both fine and large contaminants were removed. During the second inspection after another 200 hours 4-6 ounces were removed.

On a third cleaning, after 400 additional hours, 4+ ounces of contamination were removed from the lube system.

The images show trapped contamination ranging from 30+ to sub-micron in size. 71.8 % was found to be ferrous and 17.2 % was non-ferrous and 11% water.







Element Line	Net Counts	Weight %	Atom %	
CK	0000	3.10	11.18	
OK	33904	5.02	13.59	
SIK	4580	0.88	1.36	
SK	20097	3.94	5.32	
CaK	15080	3.33	3.60	
CrK	3 89 9	1.20	1.00	
Mn K	1806	0.62	0.49	
Fek	219496	80.21	62.25	
NIK	2224	0.98	0.72	
ZnK	1241	0.73	0.48	
otal		100.00	100.00	

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