



## CASE STUDY

CUSTOMER

**NABORS DRILLING**

LOCATION

**HOUSTON, TX USA / FEB-APRIL 2015**

EQUIPMENT

**HPU RESERVOIR**

APPLICATION

**HYDRAULIC FLUID**

PROVEN  
RESULTS



HYDRAULIC  
VALVE  
FAILURES  
PREVENTED

### CHALLENGE

The tolerances of hydraulic systems are 4 micron down to 1 micron for valves and bearings. Traditional filtration is unable to remove this contamination to these levels.

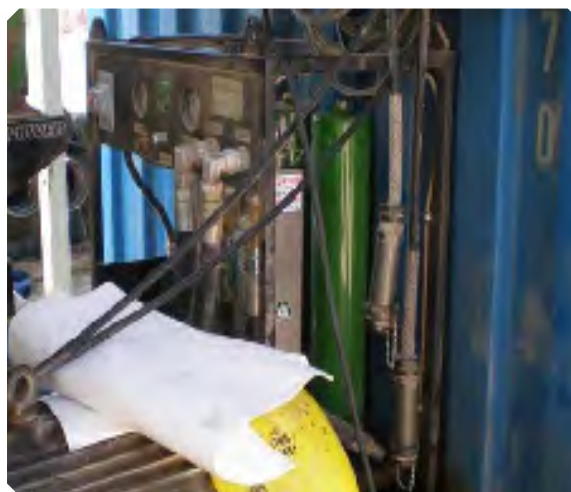
Once a month, a large filter truck is hired to filter the hydraulic fluid from the HPU for a 16 hour interval. This filtration is costly and unable to remove wear particles under 4 microns that cause hydraulic valve and bearing failures.

### SOLUTION

Install an OEI kidney loop filtration system to remove contamination down to and below 1 micron with high efficiency.

### RESULTS

The photo shows contamination captured on the magnetic filter element after 2 hours of kidney loop run time. The test took place only 4 days after the filter truck had cleaned the fluid.



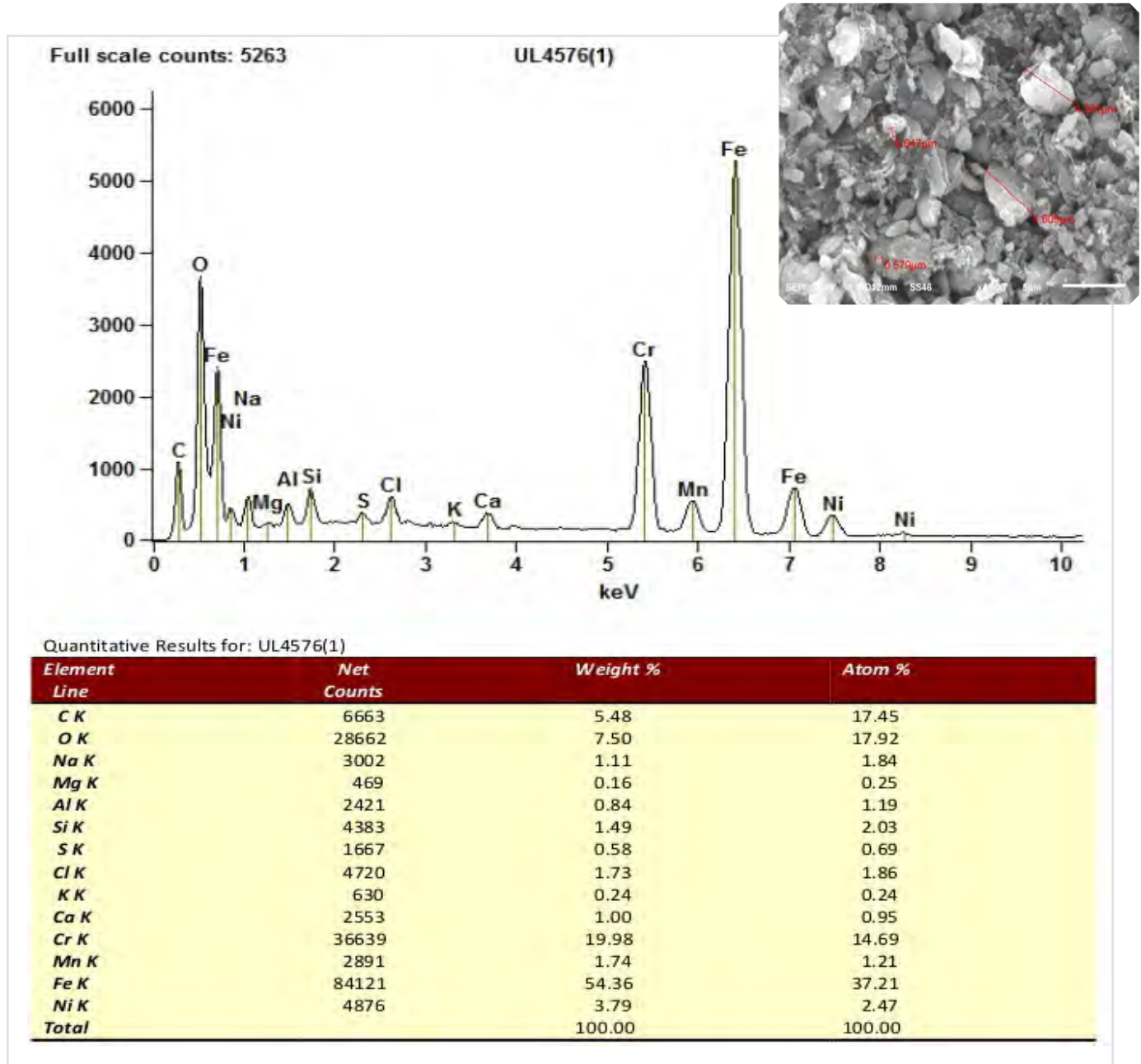
PRODUCT  
RECOMMENDATION  
**KIDNEY LOOP SYSTEM**



## RESULTS

The magnetic filter removed 46% ferrous and 39% non-ferrous and 15% water particles to sub-micron levels.

By removing this contamination the wear to system components is reduced, increasing the uptime of the Rig.



403.242.4221



QUOTES@ONEEYEINDUSTRIES.COM

