



## CASE STUDY

### CUSTOMER

**PIONEER NATURAL RESOURCES**

### LOCATION

**USA / 2014**

### EQUIPMENT

**FRAC TRUCK**

### APPLICATION

**TURBO COOLANT SYSTEM**

### PROVEN RESULTS



**TURBO-CHARGER  
OPERATING LIFE  
EXTENDED 2-3 X**

### CHALLENGE

Improve the quality of coolant oil in order to prevent premature wear of seals and pumps, as well as improve its ability to cool and lubricate the turbo charger.

### SOLUTION

Install an OEI magnetic filter y-strainer in the coolant circuit.

### RESULTS

The top photo shows contamination captured after 11 hours of operation.

As a result, static adhesion and entrapped ferrous material, high quantities of non-ferrous and water particles were captured on the magnetic element.

### Analysis

- 32% Silica
- 59% Ferrous Material

### Contamination Particle Sizes

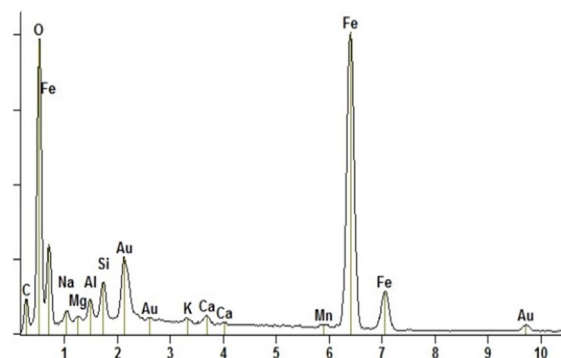
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CONTAMINATION COLLECTED AFTER 11 HOURS OF OPERATION



**PRODUCT  
RECOMMENDATION**  
**MAGNETIC FILTER  
Y-STRAINER**



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