



CASE STUDY

CUSTOMER

CANYON TECHNICAL SERVICES

LOCATION

RED DEER, AB CANADA / 2011-2014

EQUIPMENT

QUINTUPLEX PUMP

APPLICATION

LUBE OIL

PROVEN
RESULTSEQUIPMENT
PROTECTED
AGAINST
COMPONENT
FAILURENO LOST
PRODUCTION

“Every other eccentric group and the gear box was protected from the contamination by this magnetic filter. The conventional filter in the lube oil circuit is partially bypassed by the relief valve, so would not have prevented growing metal content in the oil. The element does not have enough dirt holding capacity to have been able to contain this much contamination”

- Arthur Fekete, Product Specialist, National Oilwell Varco

CHALLENGE

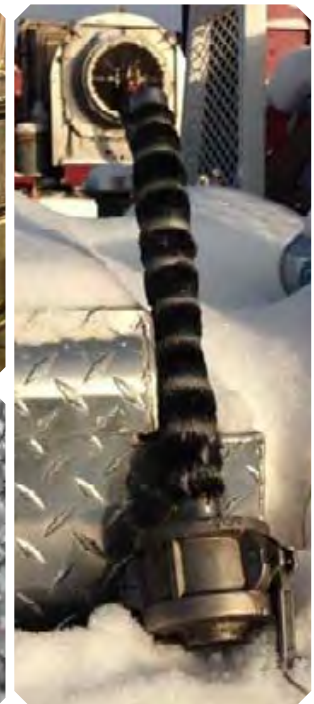
On cold start up, the traditional filter goes into bypass allowing the inherent contamination to flow through the system causing premature pump, bearing and conrod failure. This results in costly hose and cooler clean up. The most damaging contamination is below 4 microns because it wears on close-tolerance components such as bearings.

SOLUTION

Install an OEI magnetic filter scrubber between the lube oil sump and the gear pump.

RESULTS

An OEI magnetic filter scrubber was installed in March 2011 in the Quintuplex Power-End. On February 18, 2014 a large amount of contamination was found on the magnetic filter element identifying possible component failure. With the magnetic filter scrubber providing protection, the unit ran for an additional 14 hours in order to complete a job in a remote location. The magnetic filter protected the system from further component failure, extended the life of the failing components, and allowed the system to complete production. The contamination was later analyzed, identifying mechanical conrod bearing inner race failure.

RECOMMENDED
PRODUCT**MAGNETIC FILTER
SCRUBBER**

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