



CASE STUDY

CUSTOMER

PRECISION DRILLING

LOCATION

CALGARY, AB CANADA / 2013

EQUIPMENT

HYDRAULIC SYSTEM ON SLANT DRILL RIG 300

APPLICATION

LUBE OIL

PROVEN
RESULTS

AFTER 3 MONTHS THE
ISO COUNT WAS 16/13
WITH THE 5 MICRON
COUNT AT 505 & 10
MICRON COUNT OF
149PPM

“We are currently seeing the benefits of using OEI's magnetic filters through reduced particle counts during oil sampling. The sub-micron and the larger particles as seen on the magnetic filter rods in several of the pictures will undoubtedly result in reduced equipment wear. I am quite confident that hydraulic component life will be extended and that downtime due to catastrophic failure will be substantially reduced”

- Brent Pavelich, Equipment and Maintenance Manager

CHALLENGE

Contaminated oil causing premature hydraulic component failure. The traditional filtration depth media is unable to filter contamination to sub-micron levels required as tolerances on hydraulic components are below one micron.

SOLUTION

Replace the OEM PTI filter with an OEI magnetic filter element in order to remove this contamination down to submicron levels.

RESULTS

Prior to installing the OEI magnetic filter elements the hydraulic oil ISO count was 19/15 with a 5 micron count at 3,719 & 10 micron count of 778ppm. After 3 months of operation with the OEI filter element installed, the ISO count was 16/13 with the 5 micron count at 505 & 10 micron count of 149ppm.

During the 3 month test a hydraulic gear drive divider failed and the OEI filter element trapped the metal debris before it could contaminate the rest of the hydraulic system and cause further component failure.



PRODUCT
RECOMMENDATION
**MAGNETIC FILTER
ELEMENT**



TRAPPED METAL DEBRIS, APPEARED
AFTER DRIVE DIVIDER FAILURE



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