

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Wear

oil

## Machine Id **CATERPILLAR HOE 117 Diesel Engine**

Fluid PETRO CANADA 15W40 (--- GAL)

## DIAGNOSIS SAMPLE INFORMATION method WC0893841 WC0906052 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. 09 Feb 2024 Sample Date Client Info 27 Apr 2024 4564 Machine Age hrs **Client Info** 4316 All component wear rates are normal. Oil Age hrs Client Info 248 0 Oil Changed Client Info Changed N/A Contamination NORMAL Sample Status NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition Fuel >5 WC Method <1.0 <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG NEG alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method NEG NEG WEAR METALS >100 13 19 Iron ppm ASTM D5185m Chromium ASTM D5185m >20 0 ppm <1 0 0 Nickel >2 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 0 0 Silver ASTM D5185m >2 0 0 ppm Aluminum ASTM D5185m >25 1 ppm <1 Lead ASTM D5185m >40 0 <1 ppm ASTM D5185m >330 1 Copper ppm <1 Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 0 Cadmium 0 0 ASTM D5185m ppm Boron mag ASTM D5185m 8 46 Barium ASTM D5185m 0 0 ppm 28 Molybdenum ASTM D5185m 57 ppm ASTM D5185m Manganese ppm <1 <1 Magnesium ASTM D5185m 870 242 ppm Calcium ppm ASTM D5185m 1216 2001 Phosphorus ASTM D5185m 1036 1009 ppm Zinc ppm ASTM D5185m 1245 1171 Sulfur ASTM D5185m 3454 3450 ppm 3 3 Silicon ASTM D5185m >25 ppm 2 Sodium ASTM D5185m 2 ppm Potassium ASTM D5185m >20 0 1 ppm INFRA-RED % 0.3 0.3 Soot % \*ASTM D7844 >3 Nitration Abs/cm \*ASTM D7624 >20 7.7 8.1 Sulfation \*ASTM D7415 >30 19.8 19.6 Abs/.1mm FLUID DEGRADATION \*ASTM D7414 >25 15.9 14.9 Oxidation Abs/.1mm

Base Number (BN) mg KOH/g ASTM D2896

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7.8

8.5



3

31

2!

Abs/cm

10

10.0

6.

19 18 17

13

12

mg KOH/g)

-q 4.

ase 2.0

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