

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS

Contamination

Wear

oil

Machine Id CATERPILLAR 336FL EX6131 (S/N 0RKB20038) **Diesel Engine** 

DURALENE Dura-Max Xtreme 15W40 (--- GAL)

## SAMPLE INFORMATION method DC0033645 DC0027490 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 01 Apr 2024 06 Sep 2023 Machine Age hrs **Client Info** 5177 4733 All component wear rates are normal. Oil Age hrs Client Info 500 0 Oil Changed Client Info Changed N/A Sample Status NORMAL 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 15 20 Iron ppm ASTM D5185m Chromium ASTM D5185m >20 <1 <1 ppm 0 Nickel >2 0 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 0 0 Silver ASTM D5185m >2 0 0 ppm 9 Aluminum ASTM D5185m >25 6 ppm 2 Lead ASTM D5185m >40 <1 ppm ASTM D5185m >330 42 144 Copper ppm Tin ppm ASTM D5185m >15 <1 <1 Vanadium ppm ASTM D5185m 0 <1 Cadmium 0 0 ASTM D5185m ppm Boron mag ASTM D5185m 5 23 Barium ASTM D5185m 0 0 ppm 56 Molybdenum ASTM D5185m 10 ppm ASTM D5185m Manganese ppm <1 <1 Magnesium ASTM D5185m 139 545 ppm Calcium ppm ASTM D5185m 2296 2021 Phosphorus ASTM D5185m 944 986 ppm Zinc ppm ASTM D5185m 1116 1234 Sulfur ASTM D5185m 4070 3750 ppm 5 6 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m 2 4 ppm Potassium ASTM D5185m >20 <1 0 ppm **INFRA-RED** % 1 1.1 Soot % \*ASTM D7844 >3 Nitration Abs/cm \*ASTM D7624 >20 8.6 10.0 Sulfation \*ASTM D7415 >30 19.5 24.2 Abs/.1mm FLUID DEGRADATION \*ASTM D7414 12.7 20.4 Oxidation Abs/.1mm >25 9.19 Base Number (BN) mg KOH/g ASTM D2896 8.27

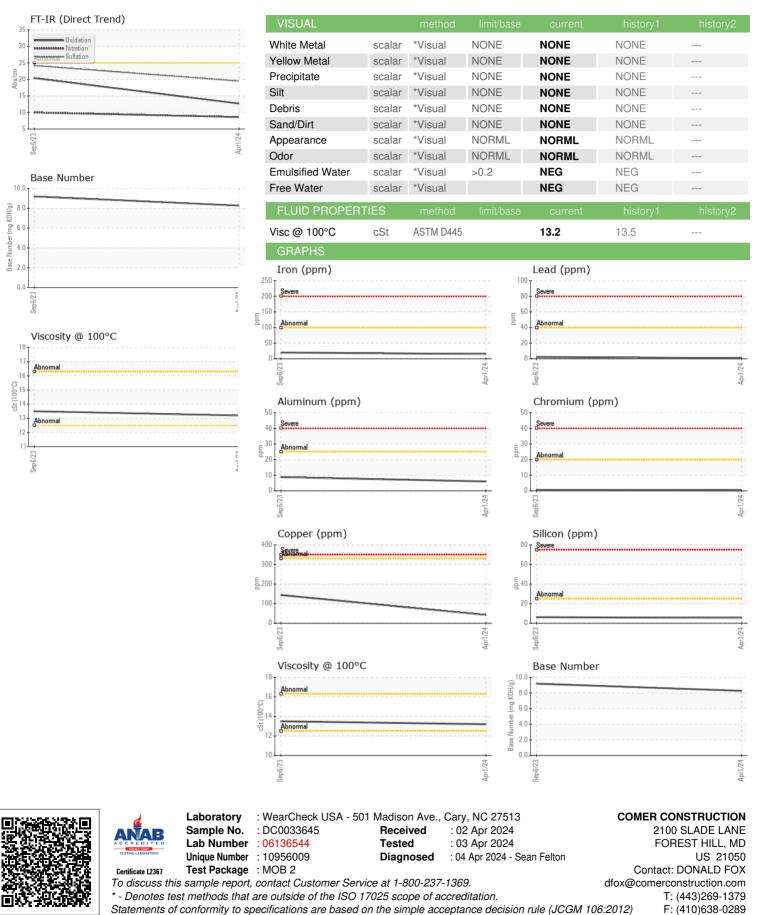


(mg KOH/g)

mbe

Base

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Submitted By: DONALD FOX

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