

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



DIAGNOSIS

Contamination

Fluid Condition

Wear

oil

Recommendation

Area

MINING ME-06 CATERPILLAR 745C TFK01686 **Diesel Engine**

SHELL RIMULA SUPER SAE 15W40 (--- GAL)

SAMPLE INFORMATION method WC0944189 Sample Number **Client Info** Resample at the next service interval to monitor. 19 Jun 2024 Sample Date Client Info 16214 Machine Age hrs **Client Info** All component wear rates are normal. Oil Age hrs Client Info 0 Oil Changed Client Info N/A NORMAL Sample Status There is no indication of any contamination in the CONTAMINATION Fuel >5 WC Method <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method NEG WEAR METALS >100 14 Iron ppm ASTM D5185m Chromium ASTM D5185m >20 <1 ppm Nickel >2 n ppm ASTM D5185m Titanium ppm ASTM D5185m >2 <1 Silver ASTM D5185m >2 0 ppm Aluminum ASTM D5185m >25 1 ppm 9 Lead ASTM D5185m >40 ppm ASTM D5185m >330 4 Copper ppm 0 Tin ppm ASTM D5185m >15 Vanadium ppm ASTM D5185m <1 Cadmium 0 ASTM D5185m ppm Boron mag ASTM D5185m 78 Barium ASTM D5185m 0 ppm Molybdenum ASTM D5185m 10 ppm ASTM D5185m Manganese ppm <1 Magnesium ASTM D5185m 71 ppm Calcium ppm ASTM D5185m 2840 2513 Phosphorus ASTM D5185m 1150 1122 ppm 1270 Zinc ppm ASTM D5185m 1305 Sulfur ASTM D5185m 2829 5325 ppm 3 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m 2 ppm Potassium ASTM D5185m >20 7 ppm INFRA-RED % 0.3 Soot % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 10.8 25.6 Sulfation *ASTM D7415 >30 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 21.9 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 10.6 5.3

Report Id: COVORE [WUSCAR] 06215650 (Generated: 06/22/2024 12:24:25) Rev: 1



35

30

Abs/cm

2

15

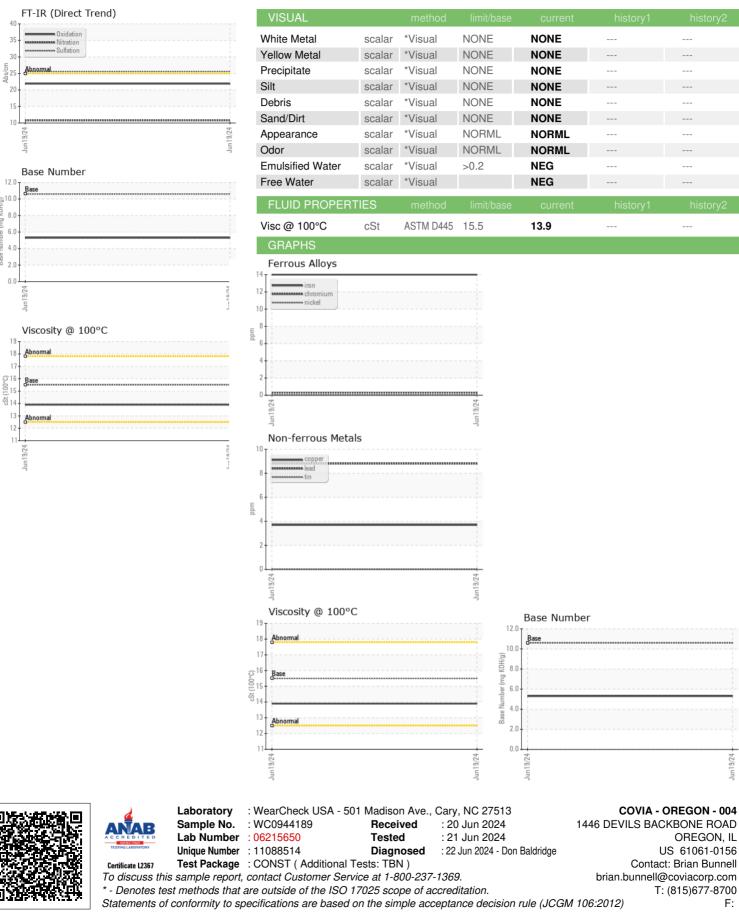
12.

e Number (mg KOH/g) 9 - 9 - 9

Base

8.0

OIL ANALYSIS REPORT



Contact/Location: Brian Bunnell - COVORE