

OIL ANALYSIS REPORT

Sample Rating Trend





Recommendation

Contamination

Fluid Condition

oil is suitable for further service.

Wear

oil

Area LAKE CALUMET

CATERPILLAR 950M L-131-1 (S/N CAT0950MHFTR00452) Componen

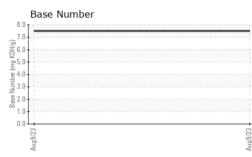
Diesel Engine

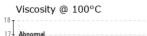
NAPA Motor Oil 15W40 (--- GAL)

SAMPLE INFORMATION method PCA0092986 Sample Number **Client Info** Resample at the next service interval to monitor. Sample Date Client Info 09 Aug 2023 Client Info Machine Age hrs 0 All component wear rates are normal. Oil Age hrs Client Info 0 Oil Changed Changed **Client Info** NORMAL Sample Status There is no indication of any contamination in the CONTAMINATION Fuel WC Method >5 <1.0 The BN result indicates that there is suitable Glycol WC Method NEG alkalinity remaining in the oil. The condition of the WEAR METALS Iron ASTM D5185m >100 21 ppm ASTM D5185m >20 Chromium ppm 1 Nickel ASTM D5185m >2 0 ppm ASTM D5185m >2 Titanium ppm <1 Silver ppm ASTM D5185m >2 0 Aluminum ASTM D5185m >25 17 ppm ASTM D5185m >40 1 Lead ppm Copper ASTM D5185m >330 2 ppm Tin ppm ASTM D5185m >15 <1 Vanadium ASTM D5185m ppm <1 Cadmium ppm ASTM D5185m <1 ADDITIVES Boron ppm ASTM D5185m 22 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 34 Manganese ASTM D5185m <1 ppm 767 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1092 ppm Phosphorus ppm ASTM D5185m 923 Zinc ASTM D5185m 1132 ppm Sulfur ppm ASTM D5185m 3553 CONTAMINANTS Silicon ASTM D5185m >25 4 ppm 4 Sodium ASTM D5185m ppm Potassium ASTM D5185m >20 5 ppm **INFRA-RED** Soot % % *ASTM D7844 >3 0.6 ----Nitration Abs/cm *ASTM D7624 >20 9.5 Sulfation Abs/.1mm *ASTM D7415 >30 19.1 FLUID DEGRADATION method 14.1 Oxidation Abs/.1mm *ASTM D7414 >25 Base Number (BN) mg KOH/g ASTM D2896 7.5

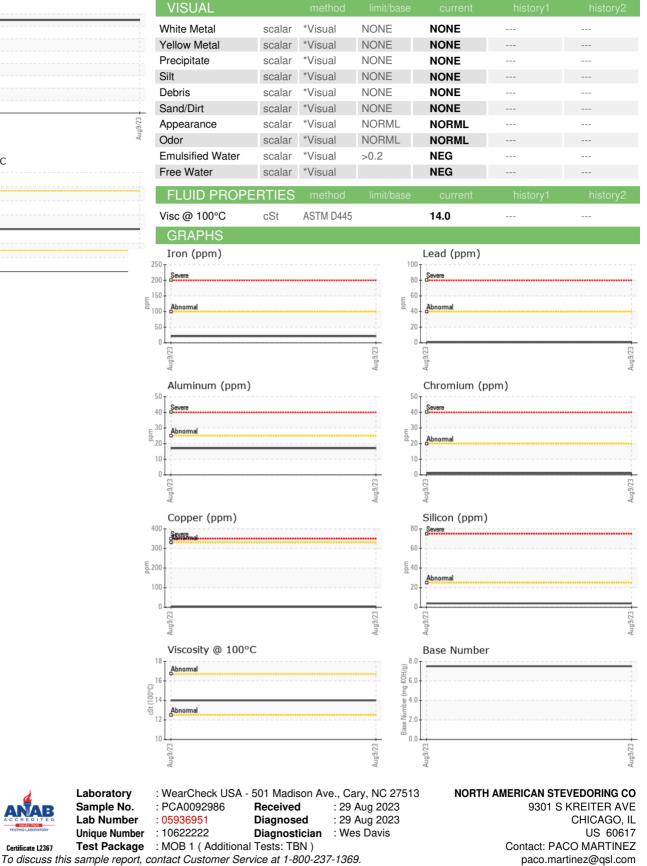


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Certificate L2367

Laboratory

Sample No.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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