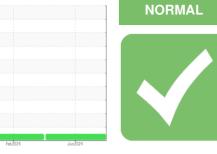


OIL ANALYSIS REPORT

Sample Rating Trend





Wear

oil

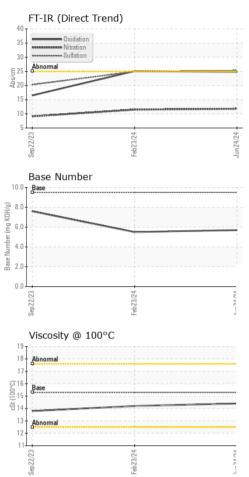
Machine Id **CATERPILLAR STEPHEN T Port Genset**

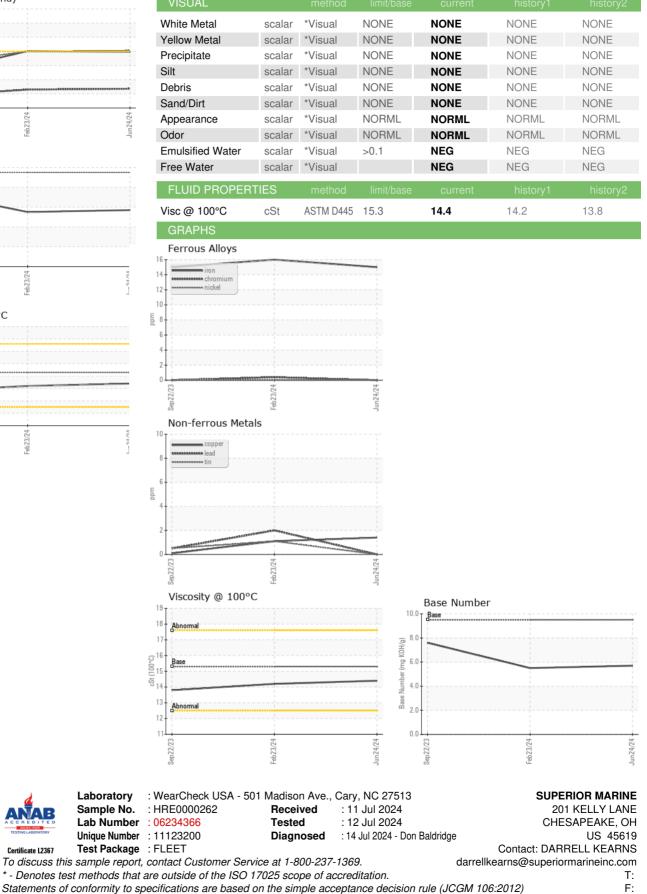
KENDALL SUPER-D XA 15W40 (--- GAL)

DIAGNOSIS SAMPLE INFORMATION method WC0843962 HRE0000262 WC0843993 Sample Number **Client Info** Recommendation Resample at the next service interval to monitor. Sample Date Client Info 24 Jun 2024 23 Feb 2024 22 Sep 2023 12824 Machine Age hrs **Client Info** 11354 9893 All component wear rates are normal. Oil Age hrs Client Info 250 250 500 Oil Changed Client Info Changed Changed Changed Contamination NORMAL Sample Status NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition Fuel >4.0 <1.0 WC Method <1.0 <1.0 The BN result indicates that there is suitable Water WC Method >0.1 NEG NEG NEG alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service. Glycol WC Method NEG NEG NEG WEAR METALS Iron >50 15 16 15 ppm ASTM D5185m Chromium ASTM D5185m >4 0 0 ppm <1 0 Nickel ASTM D5185m >2 n 0 ppm Titanium ppm ASTM D5185m 74 68 88 Silver ASTM D5185m >5 0 0 <1 ppm 2 2 Aluminum ppm ASTM D5185m >12 <1 0 2 Lead ASTM D5185m >17 ppm <1 ASTM D5185m >70 1 Copper ppm 1 <1 0 1 Tin ppm ASTM D5185m >15 <1 Vanadium ppm ASTM D5185m 0 1 <1 Cadmium 0 0 ASTM D5185m ppm <1 Boron mag ASTM D5185m 50 41 58 127 Barium ASTM D5185m 0 0 0 ppm Molybdenum ASTM D5185m 16 21 5 ppm ASTM D5185m Manganese ppm <1 <1 <1 Magnesium ASTM D5185m 270 371 359 441 ppm Calcium ppm ASTM D5185m 1900 2190 2034 1881 Phosphorus ASTM D5185m 1000 1019 1000 1035 ppm Zinc ppm ASTM D5185m 1260 1284 1290 1326 Sulfur ASTM D5185m 3400 4219 4436 4119 ppm 4 4 Silicon ASTM D5185m >25 4 ppm Sodium ASTM D5185m 4 3 2 ppm Potassium ASTM D5185m >20 4 4 3 ppm % 0.1 0.1 0.1 Soot % *ASTM D7844 Nitration Abs/cm *ASTM D7624 >20 11.8 11.5 9.1 25.3 Sulfation *ASTM D7415 >30 24.9 20.3 Abs/.1mm FLUID DEGRADATION *ASTM D7414 >25 24.8 25.1 16.5 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.5 5.7 5.5 7.6



OIL ANALYSIS REPORT





Certificate 12367

Contact/Location: DARRELL KEARNS - SUPCHEOH