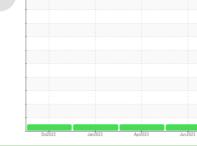


OIL ANALYSIS REPORT

Sample Rating Trend





NORMAL

Wear

oil

CATERPILLAR 980M 6141 (S/N KRS00885) Component Front Differential

TULCO LUBSOIL TO-4 50 (3 GAL)

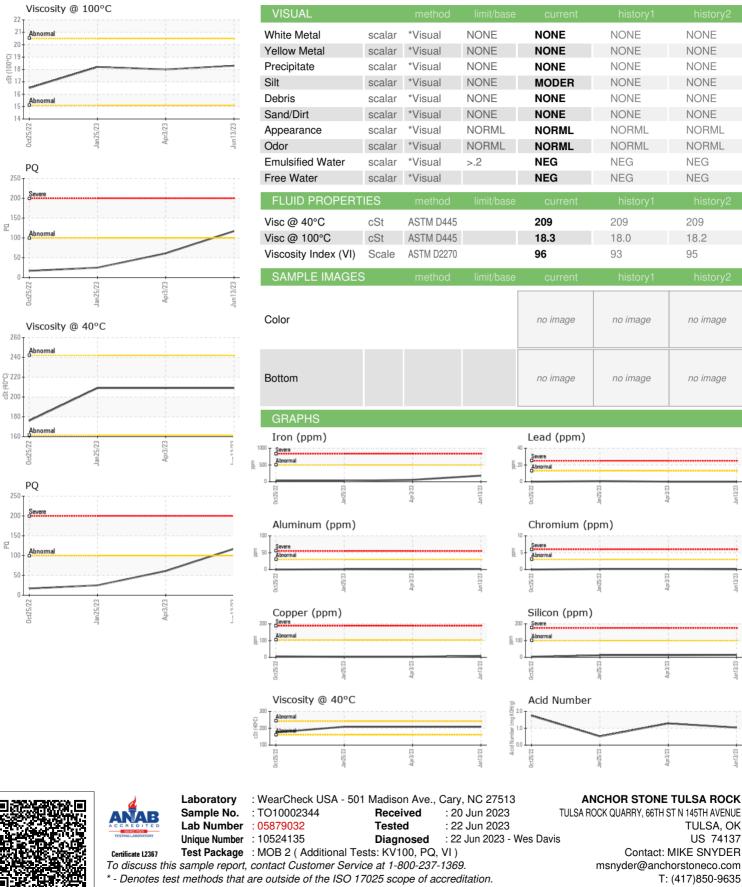
DIAGNOSIS SAMPLE INFORMATION method TO10002344 Client Info TO10002135 TO10001733 Sample Number Recommendation Resample at the next service interval to monitor. 13 Jun 2023 03 Apr 2023 25 Jan 2023 Sample Date Client Info 11371 Machine Age hrs **Client Info** 10847 10348 All component wear rates are normal. Oil Age hrs Client Info 1569 1045 546 Oil Changed **Client Info** Not Changd Not Changd Not Changd Contamination NORMAL Sample Status NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition NEG Water WC Method >.2 NEG NEG The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. WEAR METALS PQ ASTM D8184 117 61 25 Iron ASTM D5185m >500 181 56 26 ppm Chromium ppm ASTM D5185m >3 <1 -1 <1 Nickel ASTM D5185m >3 <1 <1 <1 ppm 0 >2 0 Titanium ppm ASTM D5185m <1 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ASTM D5185m >30 2 1 <1 ppm 0 0 Lead >13 ppm ASTM D5185m <1 3 Copper ASTM D5185m >103 8 3 ppm 0 0 Tin ppm ASTM D5185m >5 <1 0 0 Vanadium 0 ppm ASTM D5185m Cadmium ppm ASTM D5185m 0 0 0 1 2 <1 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 2 0 0 Molybdenum ASTM D5185m 2 2 3 ppm 2 Manganese ppm ASTM D5185m <1 <1 15 21 Magnesium ppm ASTM D5185m 18 Calcium ASTM D5185m 2944 2596 2967 ppm Phosphorus ppm ASTM D5185m 955 837 915 Zinc ppm ASTM D5185m 1168 1037 1150 Sulfur 5088 3752 5288 ppm ASTM D5185m CONTAMINANTS Silicon ASTM D5185m >100 14 12 12 ppm 0 Sodium ASTM D5185m <1 1 ppm ASTM D5185m Potassium >20 1 1 0 ppm FLUID DEGRADATION Acid Number (AN) mg KOH/g ASTM D8045 1.04 1.29 0.518



2

0

OIL ANALYSIS REPORT



Submitted By: SKIP SAENGERHAUSEN

or3/23

TULSA, OK

US 74137

F:

T: (417)850-9635

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

209

18.2

no image

no image

95