

Store 2 - Beaver [American Elec] CATERPILLAR D5065 E1100167 CPI (S/N CAT00C44KGLD00700) Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION Test UOM Method Limit/Abn Current History1 History2 Client Info LEC0048563 LEC0039499 ----Sample Number Resample at the next service interval to monitor. (Customer Sample Sample Date **Client Info** 15 Apr 2024 24 Feb 2023 Comment: Customer has no service history. Oil has been changed Machine Age hrs **Client Info** 38 35 prev. Does not no when it was changed) Oil Age hrs Client Info 0 0 0 hrs **Client Info** 0 Filter Age Oil Changed **Client Info** Changed Not Changd Filter Changed Changed Client Info Not Changd ----Sample Status NORMAL NORMAL WEAR Iron ppm ASTM D5185m >100 <1 6 Chromium ASTM D5185m >20 n ppm <1 All component wear rates are normal. Nickel ASTM D5185m >2 0 <1 ppm Titanium ASTM D5185m >2 0 <1 ppm Silver ASTM D5185m >2 0 0 ppm Aluminum ASTM D5185m >25 1 1 ppm Lead ASTM D5185m >40 <1 ppm <1 Copper 0 >330 77 ASTM D5185m ppm Tin ppm ASTM D5185m >15 <1 <1 Vanadium mag ASTM D5185m <1 0 NONE NONE White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE CONTAMINATION Silicon ASTM D5185m >!20 4 6 ppm 19 Potassium ppm ASTM D5185m >20 <1 There is no indication of any contamination in the oil. Fuel WC Method >5 <1.0 <1.0 Water WC Method >0.2 NEG NEG Glycol WC Method NFG NFG Soot % % *ASTM D7844 >3 0 0.1 Nitration Abs/cm *ASTM D7624 >20 3.8 5.6 Sulfation Abs/.1mm *ASTM D7415 >30 17.3 16.0 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE *Visual NONE NONE Sand/Dirt NONE scalar Appearance *Visual NORML NORML NORML scalar Odor scalar *Visual NORML NORML NORML Emulsified Water scalar NEG *Visual >0.2 NFG FLUID CONDITION Sodium ASTM D5185m 0 26 ppm >158 5 10 Boron ASTM D5185m 250 ppm The BN result indicates that there is suitable alkalinity remaining in the 0 0 Barium ppm ASTM D5185m 10 oil. The condition of the oil is acceptable for the time in service. Molybdenum 62 3 ppm ASTM D5185m 100 Manganese ASTM D5185m 0 2 ppm Magnesium ppm ASTM D5185m 450 425 26 Calcium ASTM D5185m 3000 1771 2520 ppm Phosphorus 941 ppm ASTM D5185m 1150 1015 Zinc ppm ASTM D5185m 1350 1204 1115

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ppm

Abs/.1mm

mg KOH/g

cSt

ASTM D5185m 4250

ASTM D2896 8.5

>25

14.4

*ASTM D7414

ASTM D445

3966

12.7

9.2

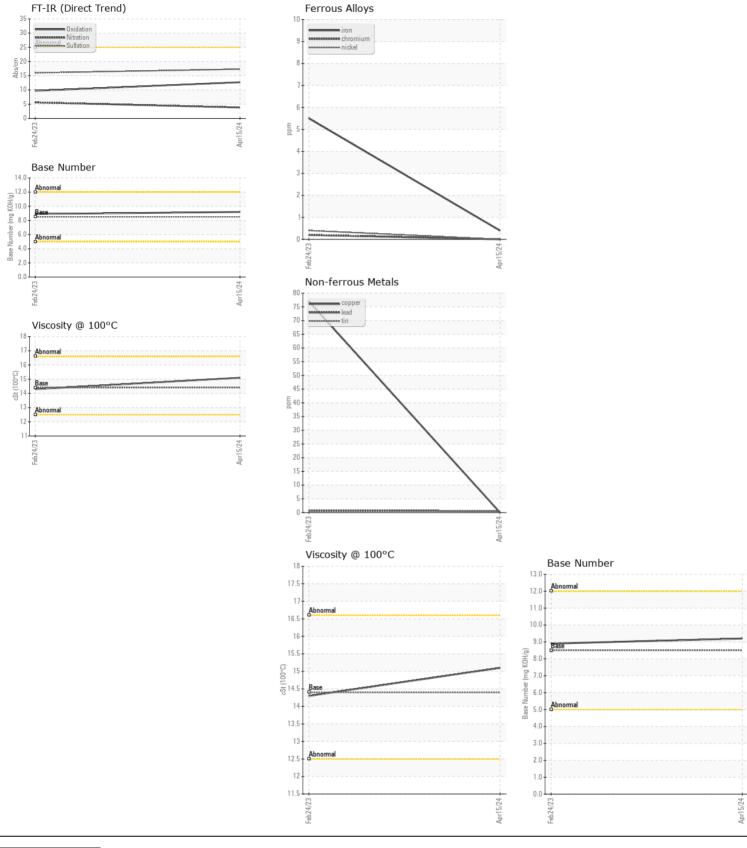
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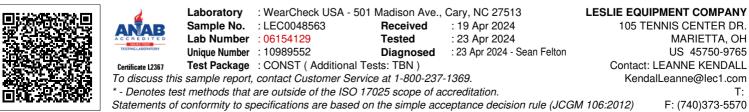
4839

9.7

8.9

14.3





Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2