

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Mobile Fleet

781 781 Component Diesel Engine

MOBIL 15W40 (12 GAL)

RECOMMENDATION UOM Limit/Abn Current Test Method History1 History2 WC0861698 WC0861697 WC0462488 Sample Number Client Info Resample at the next service interval to monitor. Sample Date Client Info 21 Apr 2024 24 Feb 2024 24 Apr 2020 Machine Age hrs **Client Info** 7679 7333 7265 Oil Age hrs **Client Info** 0 170 552 0 Filter Age Client Info 170 552 hrs Oil Changed **Client Info** N/A Changed Changed Filter Changed N/A Changed Client Info Changed NORMAL Sample Status NORMAL NORMAL WEAR 22 6 17 Iron ppm ASTM D5185m >75 Chromium ppm ASTM D5185m >4 <1 <1 <1 All component wear rates are normal. Nickel ASTM D5185m >5 0 <1 <1 ppm Titanium ASTM D5185m >2 ppm <1 <1 <1 Silver ppm ASTM D5185m >2 0 0 >54 4 2 Aluminum ASTM D5185m 1 ppm Lead ppm ASTM D5185m >20 3 <1 3 >240 0 2 4 Copper ppm ASTM D5185m Tin ASTM D5185m >5 <1 <1 \cap ppm Vanadium ASTM D5185m 0 <1 0 ppm White Metal *Visual NONE NONE NONE NONE scalar Yellow Metal *Visual NONE NONE NONE NONE scalar CONTAMINATION Silicon ASTM D5185m >35 12 5 4 ppm Potassium ppm ASTM D5185m >20 3 4 4 The amount and size of particulates present in the system are Fuel WC Method >5 <1.0 <10 <10 acceptable. There is no indication of any contamination in the oil. Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG Soot % % *ASTM D7844 >3 1.2 0.2 0.5 Nitration Abs/cm *ASTM D7624 >20 9.0 6.8 8.5 Sulfation Abs/.1mm *ASTM D7415 >30 24.5 19.1 23.1 Particles >4µm ASTM D7647 >20000 3802 2740 1493 Particles >6µm ASTM D7647 >5000 2071 254 Particles >14um >640 352 **ASTM D7647** Particles >21um ASTM D7647 >160 119 86 ASTM D7647 Particles >38µm >40 18 13 Particles >71µm ASTM D7647 >10 2 **Oil Cleanliness** ISO 4406 (c) >21/19/16 19/18/16 19/18/15 NONE Silt scalar *Visual NONE NONE NONE Debris *Visual NONE NONE NONE NONE scalar Sand/Dirt scalar *Visual NONE NONE NONE NONE NORML NORML *Visual NORML NORML Appearance scalar Odor *Visual NORML NORML NORML NORML scalar *Visual **Emulsified Water** scalar >0.2 NEG NEG NEG UID CONDITION Sodium ASTM D5185m >118 6 4 10 ppm 46 85 42 Boron ASTM D5185m ppm The BN result indicates that there is suitable alkalinity remaining in the Barium ASTM D5185m n 0 ppm 1 oil. The condition of the oil is suitable for further service. Molybdenum ASTM D5185m 45 10 40 ppm Manganese ASTM D5185m ppm <1 <1 <1 Magnesium ASTM D5185m 535 555 468 ppm Calcium 1081 ASTM D5185m 1707 1614 ppm Phosphorus ASTM D5185m 776 648 697 ppm

Zinc

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ppm

ppm

cSt

Abs/.1mm

ASTM D5185m

ASTM D5185m

*ASTM D7414

ASTM D445

mg KOH/g ASTM D2896

>25

726

3423

13.7

7.7

13.6

795

2494

21.9

9.2

12.8

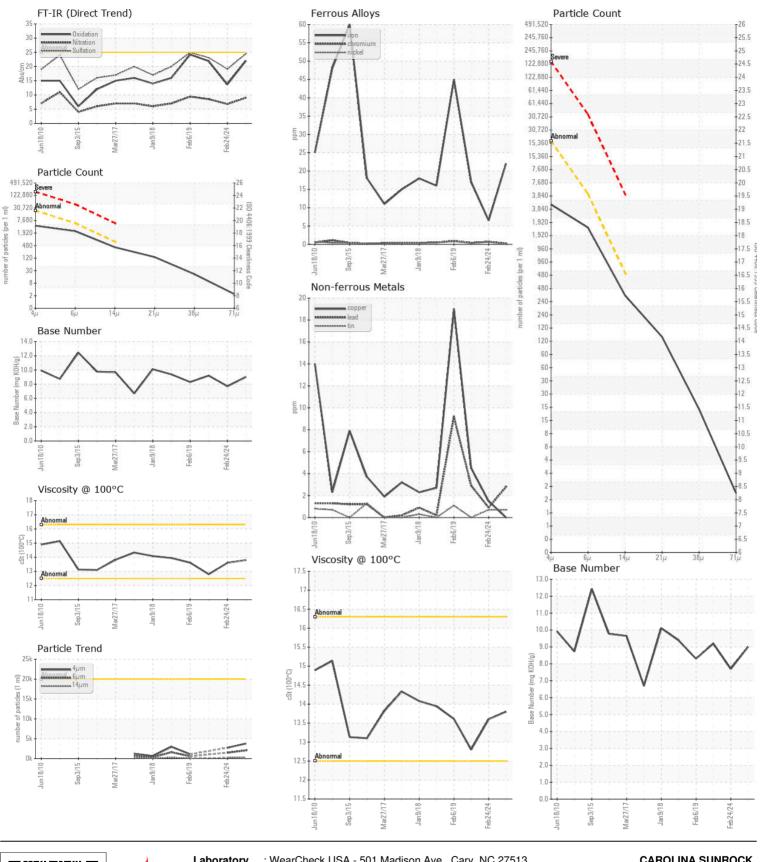
918

2787

22.0

9.0

13.8



CAROLINA SUNROCK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0861698 Received PO BOX 25 : 22 Apr 2024 : 06156809 Lab Number BUTNER, NC Tested : 24 Apr 2024 : 24 Apr 2024 - Sean Felton US 27509 Unique Number : 10992232 Diagnosed Test Package : CONST (Additional Tests: PrtCount, TBN) Contact: Leigh Dennis Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rdennis@thesunrockgroup.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)575-4505 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)575-0162

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2