

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id MACK 413064 Component Diesel Engine Fluid MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION Test UOM Method Limit/Abn Current History1 History2 Client Info GFL0111339 GFL0095438 GFL0077246 Sample Number Resample at the next service interval to monitor. 07 Feb 2024 01 Dec 2023 01 Jun 2023 Sample Date **Client Info** Machine Age hrs Client Info 3262 2987 1644 Oil Age hrs Client Info 0 500 500 500 500 Filter Age hrs **Client Info** 0 Oil Changed **Client Info** Changed Changed Changed Filter Changed Changed Changed Client Info Changed NORMAL NORMAL NORMAL Sample Status WEAR Iron ppm ASTM D5185m >120 5 5 2 Chromium ASTM D5185m >20 <1 0 ppm <1 All component wear rates are normal. Nickel ASTM D5185m >5 2 <1 0 ppm Titanium ppm ASTM D5185m >2 0 <1 0 Silver ASTM D5185m >2 0 <1 <1 ppm ASTM D5185m >20 3 Aluminum ppm 3 0 Lead ASTM D5185m >40 0 0 <1 ppm Copper ppm ASTM D5185m >330 1 4 1 Tin 0 ppm ASTM D5185m >15 0 <1 0 Vanadium ppm ASTM D5185m <1 <1 White Metal NONE NONE NONE NONE scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE NONE CONTAMINATION Silicon ASTM D5185m >25 4 4 5 ppm Potassium ASTM D5185m >20 3 4 2 ppm There is no indication of any contamination in the oil. Fuel WC Method >3.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NFG NEG NEG Soot % % *ASTM D7844 >4 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 9.2 9.6 8.1 18.6 Sulfation Abs/.1mm *ASTM D7415 >30 17.8 19.0 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt *Visual NONE NONE NONE NONE scalar Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar NEG NEG *Visual >0.2 NFG FLUID CONDITION Sodium ASTM D5185m 2 0 2 ppm Boron 101 72 87 ASTM D5185m ppm The BN result indicates that there is suitable alkalinity remaining in the 0 0 Barium ppm ASTM D5185m 0 oil. The condition of the oil is acceptable for the time in service. Molybdenum 115 121 84 ppm ASTM D5185m Manganese ASTM D5185m 0 <1 ppm <1 632 Magnesium ppm ASTM D5185m 657 588 Calcium ASTM D5185m 1249 1180 1387 ppm Phosphorus 714 639 725 ppm ASTM D5185m Zinc 805 ppm ASTM D5185m 787 886

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ppm

Abs/.1mm

mg KOH/g

cSt

ASTM D5185m

*ASTM D7414

ASTM D2896

ASTM D445

>25

10.7

15.2

3751

17.1

4.1

13.5

2924

17.1

8.4

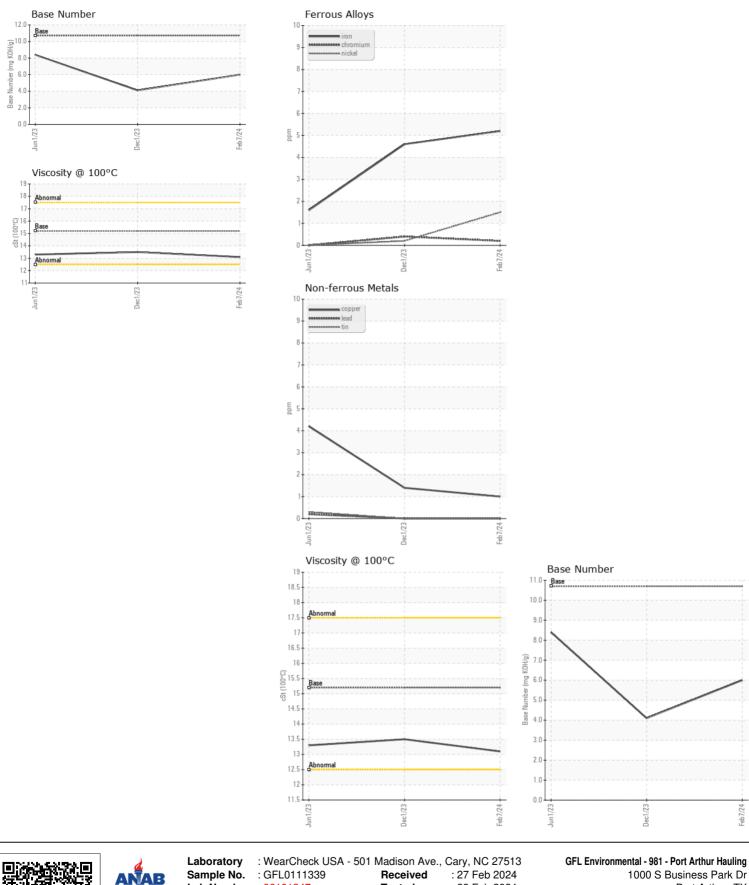
13.3

3179

15.6

6.0

13.1



Sample No. : GFL0111339 Received : 27 Feb 2024 1000 S Business Park Dr Lab Number : 06101347 Tested : 28 Feb 2024 Port Arthur, TX Diagnosed Unique Number : 10899577 : 28 Feb 2024 - Don Baldridge US 77640 Test Package : FLEET Contact: MICHAEL KAY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mkay@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)660-9331 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: