

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION NORMAL

Machine Id 7809M Component Diesel E

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- QTS) RECOMMENDATION Test UOM Method Limit/Abn Current History1 History2 Client Info GFL0108877 GFL0101509 GFL0072904 Sample Number No corrective action is recommended at this time. Resample at the Sample Date **Client Info** 19 Mar 2024 01 Dec 2023 25 Apr 2023 next service interval to monitor. Machine Age hrs Client Info 4590 4350 3572 Oil Age hrs Client Info 4590 0 720 0 Filter Age hrs **Client Info** 720 0 Oil Changed **Client Info** Not Changd Changed Changed Filter Changed Not Changd Changed Client Info Changed MARGINAL SEVERE NORMAL Sample Status WEAR Iron ppm ASTM D5185m >90 28 7 35 Chromium ASTM D5185m >20 n 0 ppm <1 All component wear rates are normal. Nickel ASTM D5185m >2 0 0 0 ppm Titanium ppm ASTM D5185m >2 0 0 <1 Silver ASTM D5185m >2 0 0 0 ppm Aluminum ppm ASTM D5185m >20 6 <1 3 Lead ASTM D5185m >40 0 0 0 ppm 0 0 Copper ASTM D5185m >330 <1 ppm 0 0 Tin ppm ASTM D5185m >15 0 0 Vanadium mag ASTM D5185m 0 0 NONE NONE NONE White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE NONE CONTAMINATION Silicon ASTM D5185m >25 4 2 5 ppm ASTM D5185m >20 12 0 2 Potassium ppm Light fuel dilution occurring. No other contaminants were detected in Fuel % ASTM D3524 >3.0 1.6 11.1 <1.0 the oil. Water WC Method >0.2 NEG NEG NEG Glycol WC Method NFG NEG NFG Soot % % *ASTM D7844 >6 1.4 0.3 0.3 Nitration Abs/cm *ASTM D7624 >20 11.6 8.2 10.2 Sulfation Abs/.1mm *ASTM D7415 >30 22.4 19.3 22.2 Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE *Visual NONE NONE Sand/Dirt 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 18 5 6 ppm Boron 0 3 ASTM D5185m 0 <1 ppm The BN result indicates that there is suitable alkalinity remaining in the 0 0 Barium ppm ASTM D5185m 0 0 oil. The condition of the oil is suitable for further service. Molybdenum ASTM D5185m 60 56 46 61 ppm Manganese ASTM D5185m 0 0 ppm 0 <1 Magnesium ppm ASTM D5185m 1010 937 782 956 Calcium ASTM D5185m 1070 1046 903 1172 ppm Phosphorus ASTM D5185m 1150 1043 733 1009 ppm

Zinc

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ppm

ppm

cSt

Abs/.1mm

ASTM D5185m

*ASTM D7414

ASTM D445

mg KOH/g ASTM D2896

ASTM D5185m 2060

1270

>25

9.8

15.4

1230

3410

20.0

9.5

14.6

1039

2418

15.8

7.6

11.4

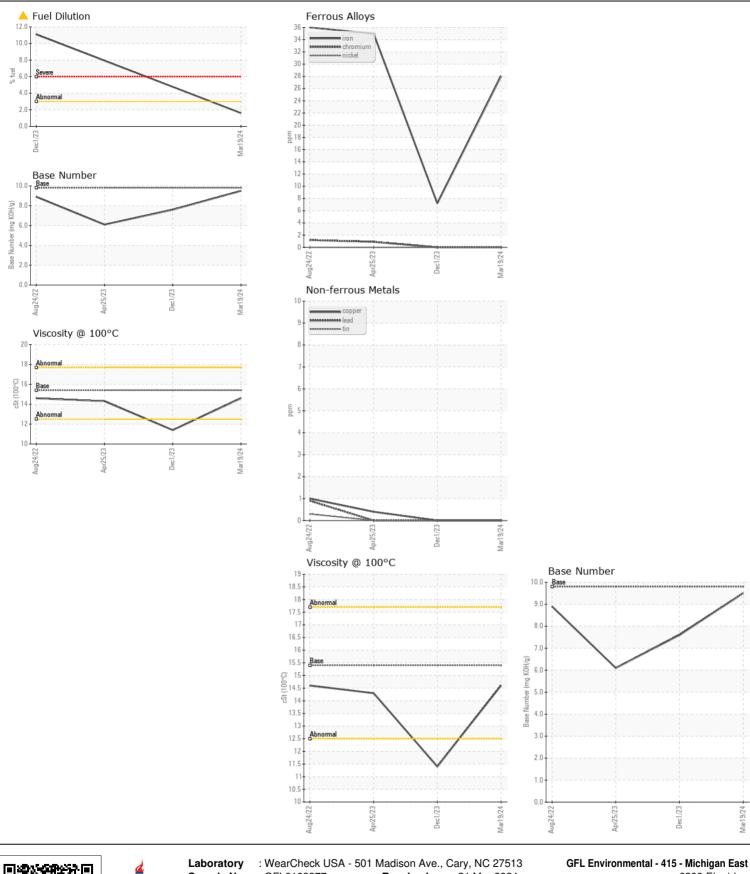
1283

2798

22.0

6.1

14.3



Sample No. : GFL0108877 Received : 21 Mar 2024 6200 Elmridge Lab Number : 06124610 Tested : 22 Mar 2024 Sterling Heights, MI Unique Number : 10938761 Diagnosed : 22 Mar 2024 - Wes Davis US 48313 Test Package : FLEET (Additional Tests: PercentFuel) Contact: Frank Wolak Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. fwolak@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (586)825-9514 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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