

OIL ANALYSIS REPORT

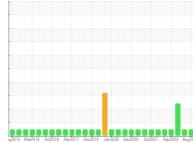
Sample Rating Trend





Component Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)





SAMPLE INFORMATION method GFL0091730 GFL0080288 GFL0080300 Client Info Sample Number Sample Date Client Info 24 Aug 2023 07 Jun 2023 21 Mar 2023 492957 483512 Machine Age hrs **Client Info** 474026 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL ABNORMAL CONTAMINATION Fuel WC Method >3.0 <1.0 **2**.4 <1.0 Glycol WC Method NEG NEG 0.0 WEAR METALS 5 4 Iron ASTM D5185(m) >120 11 ppm ASTM D5185(m) Chromium >20 0 0 ppm <1 Nickel ASTM D5185(m) >5 <1 <1 4 ppm 0 >2 0 0 Titanium ppm ASTM D5185(m) Silver ppm ASTM D5185(m) >2 0 0 0 Aluminum ASTM D5185(m) >20 1 2 ppm <1 Lead ASTM D5185(m) >40 1 1 ppm 1 Copper ASTM D5185(m) >330 1 <1 1 ppm 0 0 Tin ppm ASTM D5185(m) >15 <1 0 0 Antimony ASTM D5185(m) 0 ppm Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium 0 0 ppm ASTM D5185(m) 0 0 Cadmium ppm ASTM D5185(m) 0 **ADDITIVES** Boron ASTM D5185(m) 0 4 2 2 ppm 0 0 0 Barium ppm ASTM D5185(m) O 59 Molybdenum 60 59 59 ppm ASTM D5185(m) Manganese ASTM D5185(m) 0 <1 <1 <1 ppm 943 Magnesium ppm ASTM D5185(m) 1010 926 964 Calcium ppm ASTM D5185(m) 1070 1004 1000 1095 Phosphorus 1150 1050 ppm ASTM D5185(m) 1018 1091 Zinc ppm ASTM D5185(m) 1270 1151 1159 1204 Sulfur 2501 ppm ASTM D5185(m) 2060 2492 2640 Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS 2 >25 4 Silicon ppm ASTM D5185(m) 11 Sodium 28 62 4 ppm ASTM D5185(m) Potassium ppm ASTM D5185(m) >20 2 5 0 **INFRA-RED**

0.1

8.2

18.7

15.5

0.1

8.7

19.3

15.8

%

FLUID DEGRADATION

Abs/.1mm

Abs/.1mm

ASTM D7844*

ASTM D7415*

ASTM D7414*

Abs/cm ASTM D7624*

>4

>20

>30

>25

Soot %

Nitration

Sulfation

Oxidation

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

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0.1

11.3

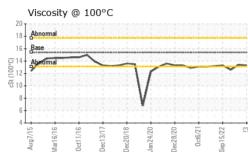
23.1

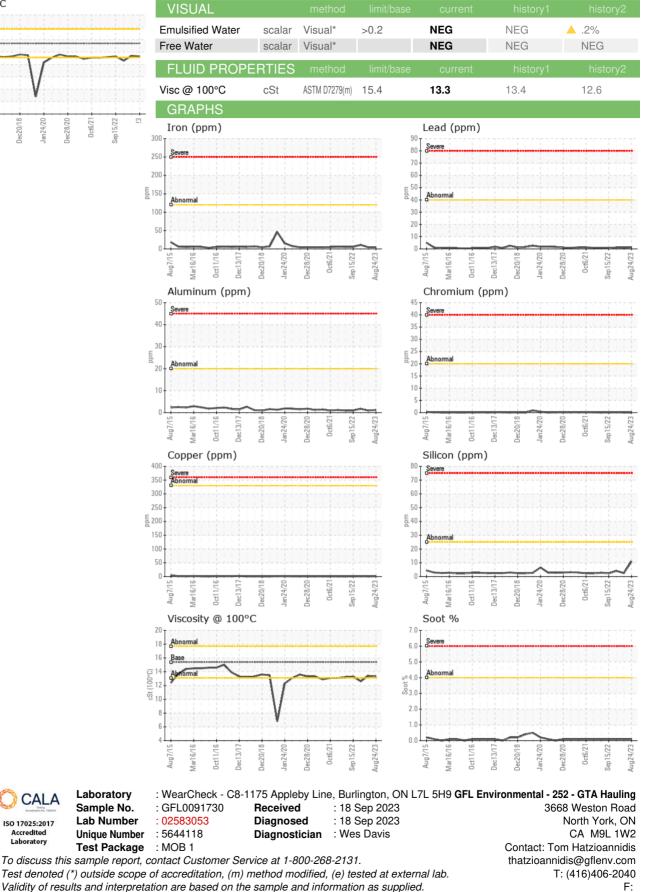
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Submitted By: Amanda Cipollone



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