

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 4515 Component

Front Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (38 LTR)

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#### SAMPLE INFORMATION method GFL0091577 Client Info GFL0084324 GFL0077572 Sample Number 10 Oct 2023 Sample Date Client Info 10 Aug 2023 20 Apr 2023 20394 Machine Age hrs **Client Info** 20112 19581 Oil Age hrs Client Info 278 580 402 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel WC Method >6.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG WEAR METALS 7 5 Iron ASTM D5185(m) >100 4 ppm ASTM D5185(m) >20 0 0 Chromium ppm <1 Nickel ASTM D5185(m) >2 <1 <1 <1 ppm 0 0 Titanium ppm ASTM D5185(m) <1 Silver ppm ASTM D5185(m) >2 <1 0 0 Aluminum ASTM D5185(m) >25 1 2 ppm 1 ASTM D5185(m) >40 1 Lead ppm <1 <1 Copper ASTM D5185(m) >330 <1 <1 ppm <1 0 Tin ppm ASTM D5185(m) >15 <1 <1 0 Antimony ASTM D5185(m) 0 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) 1 2 3 2 ppm 0 Barium ppm ASTM D5185(m) 1 <1 0 59 Molybdenum 60 56 57 ppm ASTM D5185(m) Manganese ASTM D5185(m) 1 0 ppm <1 <1 Magnesium ppm ASTM D5185(m) 1010 925 969 945 Calcium ppm ASTM D5185(m) 1070 1083 1091 1114 Phosphorus ppm ASTM D5185(m) 1150 949 1036 1056 Zinc ASTM D5185(m) 1270 1149 1184 1171 ppm Sulfur ASTM D5185(m) 2060 2431 2453 2577 ppm Lithium ASTM D5185(m) ppm <1 <1 <1 CONTAMINANTS 8 >25 7 8 Silicon ASTM D5185(m) ppm Sodium ASTM D5185(m) 4 6 4 ppm Potassium ppm ASTM D5185(m) >20 <1 1 <1 **INFRA-RED** % >3 0.1 0.3 0.1 Soot % ASTM D7844\*

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Nitration

Sulfation

Abs/cm ASTM D7624\*

ASTM D7415\*

Abs/.1mm

>20

>30

6.5

19.0

6.7

19.1

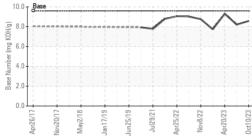
8.2

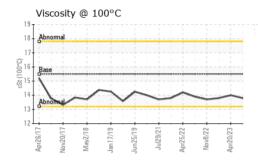
21.3

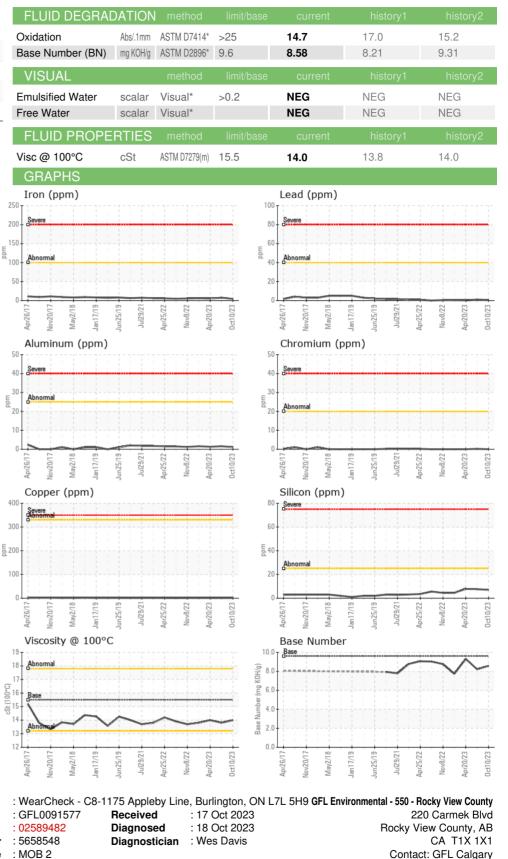


# **OIL ANALYSIS REPORT**

Base Number







**Test Package** : MOB 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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CALA

ISO 17025:2017 Accredited

Laboratory

Laboratory

Sample No.

Lab Number

Unique Number

Page 2 of 2