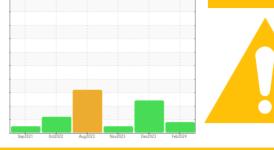


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

history2

GFL0089159

24 Nov 2023

Not Changd

history2

history2

NORMAL

NEG

NEG

21

1

1

0

<1

8

2

<1

<1

<1

0

3

0

57

<1

904

1038

1102

1244

3001

4

60

18

<1.0

0.9

history2

history2

history2

12388

0

-0-0

DIAGNOSIS

Contamination

Fluid Condition

to monitor.

Wear

oil.

Component **Diesel Engine**

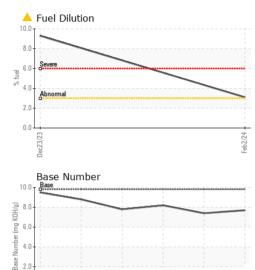
Machine Ic 530M

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

SAMPLE INFORMATION method limit/base current history1 GFL0108932 GFL0105805 Sample Number **Client Info** Recommendation We advise that you check the fuel injection system. Sample Date Client Info 02 Feb 2024 23 Dec 2023 Oil and filter change at the time of sampling has Machine Age hrs Client Info 12669 12527 been noted. Resample at the next service interval Oil Age hrs Client Info 12527 11936 Oil Changed Client Info Changed Changed ABNORMAL Sample Status SEVERE All component wear rates are normal. CONTAMINATION method limit/base current history1 There is a moderate amount of fuel present in the >0.2 NEG Water WC Method NEG Glycol WC Method NEG NEG WEAR METALS limit/base method current historv1 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the Iron ASTM D5185m >90 31 35 ppm oil is suitable for further service. >20 2 Chromium ppm ASTM D5185m 1 Nickel ASTM D5185m >2 2 0 ppm 0 0 ASTM D5185m >2 Titanium ppm Silver ppm ASTM D5185m >2 <1 0 Aluminum ASTM D5185m >20 12 2 ppm ASTM D5185m >40 3 0 Lead ppm ASTM D5185m 2 Copper >330 <1 ppm 0 Tin ppm ASTM D5185m >15 <1 0 Vanadium ASTM D5185m ppm <1 Cadmium ppm ASTM D5185m 0 0 **ADDITIVES** method limit/base current history1 Boron ppm ASTM D5185m 0 1 <1 Barium ppm ASTM D5185m 0 0 0 ASTM D5185m 60 60 56 Molybdenum ppm Manganese ASTM D5185m 0 0 ppm 1 1010 866 Magnesium ppm ASTM D5185m 920 Calcium ASTM D5185m 1070 1025 997 ppm Phosphorus ppm ASTM D5185m 1150 1008 906 Zinc ASTM D5185m 1270 1257 1130 ppm Sulfur 2060 2839 ppm ASTM D5185m 2873 **CONTAMINANTS** method limit/base current history1 Silicon ASTM D5185m >25 5 4 ppm 53 Sodium ASTM D5185m ppm 7 Potassium ASTM D5185m >20 24 2 ppm 9.3 Fuel % ASTM D3524 >3.0 3.1 **INFRA-RED** method limit/base current history1 % >6 1.3 0.5 Soot % *ASTM D7844



OIL ANALYSIS REPORT



Viscosity @ 100°C

ua9/23

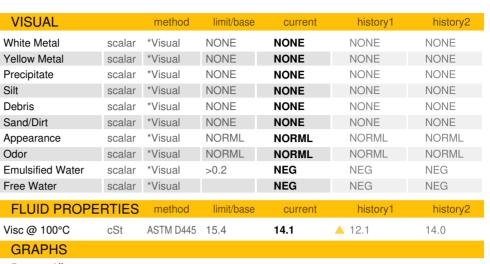
19 18

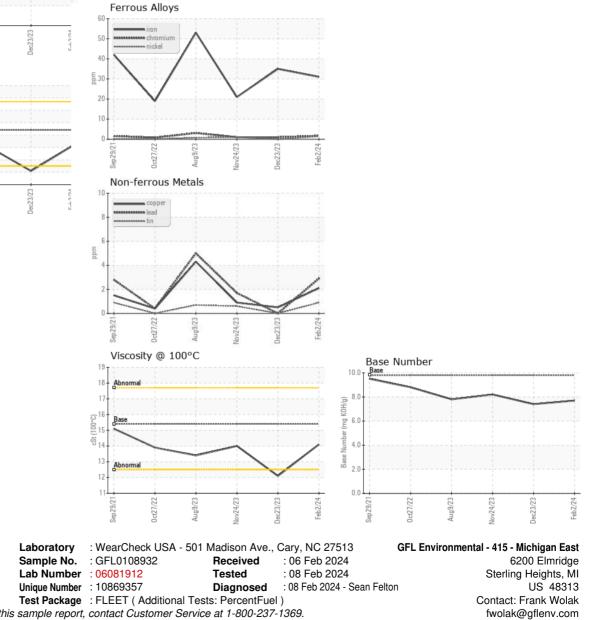
13 Abnorma 12

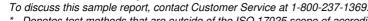
Sep29/21

ov24/23

ov24/23







* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

F:

T: (586)825-9514