

OIL ANALYSIS REPORT

Sample Rating Trend



Area 508 North bay Machine Id 22047

Component Diesel Engine

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

SAMPLE INFORMATION method limit/base current history1 history2 GFL0088352 Sample Number **Client Info** 13 Mar 2024 Sample Date Client Info 10137 Machine Age hrs **Client Info** Oil Age hrs Client Info 500 Oil Changed Client Info N/A Sample Status ABNORMAL CONTAMINATION method limit/base current history1 history2 Water >0.2 WC Method NEG Glycol WC Method NEG WEAR METALS method limit/base current historv1 history2 8 PQ ASTM D8184* >65 >80 Iron ppm ASTM D5185(m) 113 Chromium ASTM D5185(m) >5 3 ppm Nickel ASTM D5185(m) >2 1 ppm Titanium ppm ASTM D5185(m) 0 Silver ASTM D5185(m) >3 0 ppm Aluminum ASTM D5185(m) >30 20 ppm ASTM D5185(m) Lead >30 <1 ppm 2 Copper ppm ASTM D5185(m) >150 ASTM D5185(m) >5 0 Tin ppm Antimony ppm ASTM D5185(m) 0 0 Vanadium ASTM D5185(m) ppm 0 Bervllium ppm ASTM D5185(m) Cadmium 0 ASTM D5185(m) ppm **ADDITIVES** method limit/base current history1 history2 17 Boron ppm ASTM D5185(m) 0 ASTM D5185(m) O 0 Barium ppm Molybdenum ASTM D5185(m) 60 35 ppm Manganese ppm ASTM D5185(m) 0 <1 Magnesium ASTM D5185(m) 1010 465 ppm Calcium ppm ASTM D5185(m) 1070 1689 Phosphorus ASTM D5185(m) 1150 846 ppm 1008 Zinc ppm ASTM D5185(m) 1270 Sulfur ASTM D5185(m) 2060 2553 ppm Lithium ppm ASTM D5185(m) <1 CONTAMINANTS limit/base method current history1 history2 Silicon >20 9 ppm ASTM D5185(m) Sodium ppm ASTM D5185(m) 4 Potassium ASTM D5185(m) >20 5 ppm Fuel ASTM D7593* >5 2.1 % **INFRA-RED** limit/base current history1 history2 method % ASTM D7844* >3 0.7 Soot % Abs/cm ASTM D7624* Nitration >20 12.5

Abs/.1mm ASTM D7415*

>30

24.0

DIAGNOSIS Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

🔺 Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

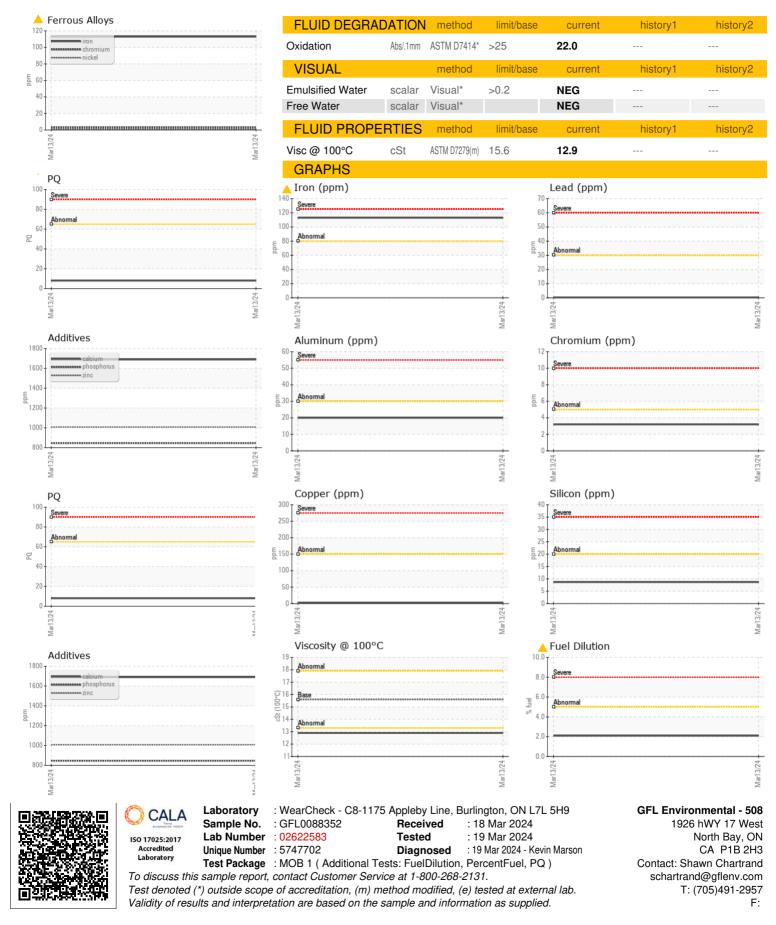
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sulfation



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