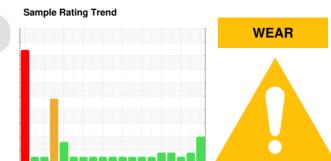


OIL ANALYSIS REPORT



PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

SAMPLE INFORMATION method limit/base current history1 history2 GFL0117297 GFL0099555 GFL0084287 Sample Number **Client Info** Sample Date Client Info 29 Apr 2024 17 Jan 2024 20 Jul 2023 12188 Machine Age hrs Client Info 11640 216145 Oil Age hrs Client Info 548 465 0 Oil Changed Client Info Changed Changed Changed ABNORMAL Sample Status MARGINAL NORMAL CONTAMINATION method limit/base current history1 history2 Water >0.2 NEG NEG WC Method NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current historv1 history2 0 PQ ASTM D8184* >65 ASTM D5185(m) >80 91 35 49 Iron ppm Chromium ASTM D5185(m) >5 2 2 ppm <1 Nickel ASTM D5185(m) >2 1 ppm <1 <1 Titanium ppm ASTM D5185(m) 0 0 0 Silver ASTM D5185(m) >3 0 0 0 ppm Aluminum ASTM D5185(m) >30 7 6 7 ppm ASTM D5185(m) 0 Lead >30 0 <1 ppm 2 2 2 Copper ppm ASTM D5185(m) >150 0 0 ASTM D5185(m) 0 Tin ppm >5 Antimony ppm ASTM D5185(m) 0 0 0 0 0 0 Vanadium ASTM D5185(m) ppm 0 Bervllium ppm ASTM D5185(m) 0 0 Cadmium 0 0 0 ASTM D5185(m) ppm **ADDITIVES** method limit/base current history1 history2 2 3 3 Boron ppm ASTM D5185(m) 1 0 0 Barium ASTM D5185(m) 0 ppm 1 Molybdenum ASTM D5185(m) 60 53 55 61 ppm Manganese ppm ASTM D5185(m) 1 1 <1 <1 Magnesium ppm ASTM D5185(m) 1010 858 893 1010 Calcium ppm ASTM D5185(m) 1070 952 1006 1105 Phosphorus ASTM D5185(m) 1150 873 974 1079 ppm 1075 1250 Zinc ppm ASTM D5185(m) 1270 1130 Sulfur ASTM D5185(m) 2060 2161 2667 2449 ppm Lithium ppm ASTM D5185(m) <1 <1 <1 CONTAMINANTS limit/base current method history1 history Silicon 15 15 9 ppm ASTM D5185(m) >20 Sodium ppm ASTM D5185(m) 6 2 7 Potassium ASTM D5185(m) >20 4 2 <1 ppm Fuel ASTM D7593* >5 6.7 3.6 <1.0 % **INFRA-RED** limit/base current history1 history2 method % ASTM D7844* >3 0.7 0.3 0.7 Soot % Abs/cm ASTM D7624* 7.5 13.5 Nitration >20 12.2 Sulfation Abs/.1mm ASTM D7415* >30 22.5 19.3 27.7

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Machine Id 801106

🔺 Wear

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

Contamination

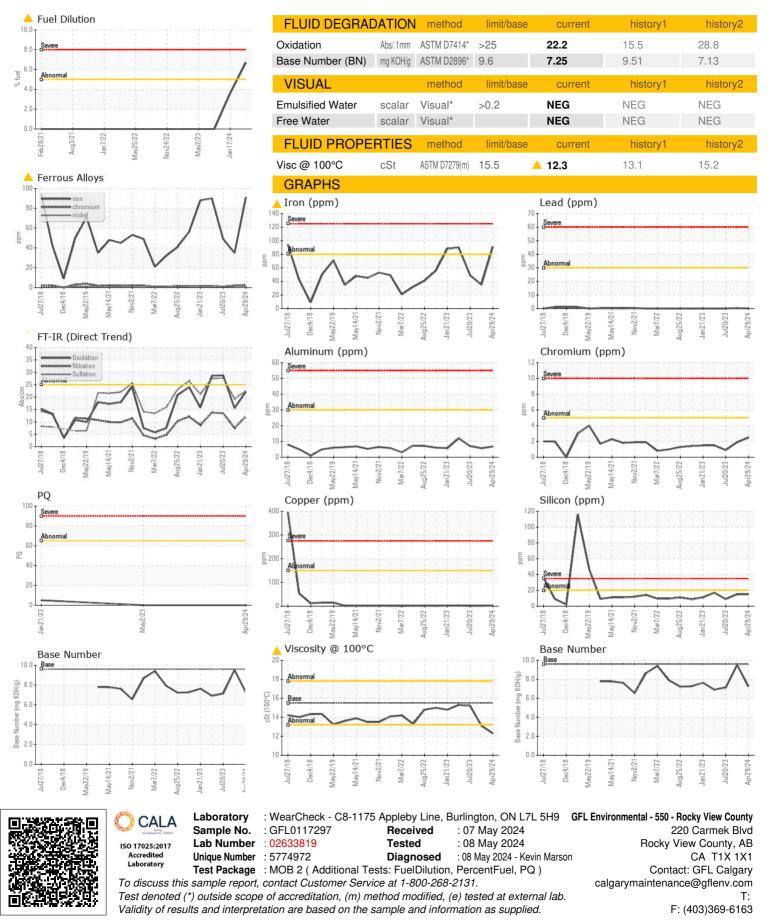
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



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