

OIL ANALYSIS REPORT

Sample Rating Trend





814022 Component Diesel Engine Fluid

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

SAMPLE INFORMATION method limit/base current history1 history2 GFL0117634 Sample Number **Client Info** Sample Date Client Info 01 Apr 2024 490 Machine Age hrs **Client Info** Oil Age hrs Client Info 0 Oil Changed Client Info Not Changd ABNORMAL Sample Status 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 Iron ASTM D5185m >120 43 ppm ASTM D5185m >20 Chromium ppm 1 Nickel ASTM D5185m >5 7 ppm ASTM D5185m >2 n Titanium ppm Silver ppm ASTM D5185m >2 <1 Aluminum ASTM D5185m >20 6 ppm ASTM D5185m >40 1 Lead ppm ASTM D5185m Copper ppm >330 168 2 Tin ppm ASTM D5185m >15 Vanadium ASTM D5185m ppm <1 Cadmium ppm ASTM D5185m 0 **ADDITIVES** method limit/base current history1 history2 0 Boron ppm ASTM D5185m 313 Barium ppm ASTM D5185m 0 <1 ASTM D5185m 60 125 Molybdenum ppm Manganese ppm ASTM D5185m 0 4 1010 682 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 1497 ppm Phosphorus ppm ASTM D5185m 1150 702 Zinc ppm ASTM D5185m 1270 827 Sulfur 2060 ppm ASTM D5185m 2718 **CONTAMINANTS** method limit/base current history1 history2 Silicon ASTM D5185m >25 75 ppm 3 Sodium ASTM D5185m ppm Potassium ASTM D5185m >20 4 ppm Fuel % ASTM D3524 >3.0 0.4 **INFRA-RED** method limit/base current history1 history2 0.4 % >4 Soot % *ASTM D7844 Nitration Abs/cm *ASTM D7624 >20 9.3 Sulfation 25.1 *ASTM D7415 >30 Abs/.1mm FLUID DEGRADATION method limit/base current history1 history2 Abs/.1mm *ASTM D7414 >25 22.5 Oxidation Base Number (BN) mg KOH/g ASTM D2896 9.8 7.9

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Machine Id

Wear

Metal levels are typical for a new component breaking in.

Contamination

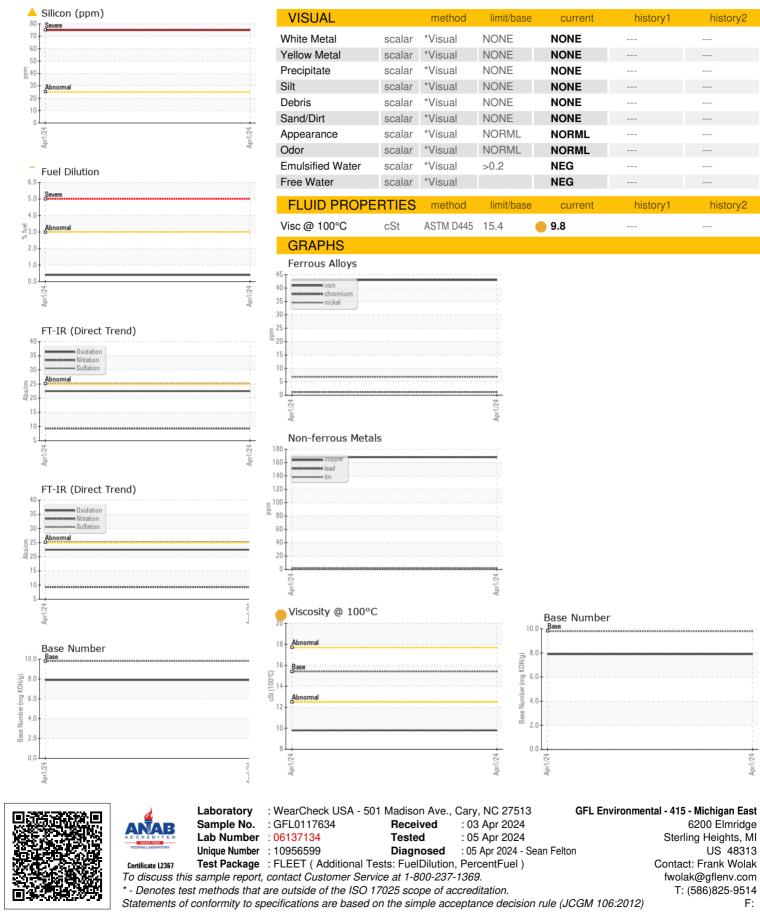
Elemental level of silicon (Si) above normal indicating ingress of seal material. Tests indicate that there is no fuel present in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



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