

PROBLEM SUMMARY

Sample Rating Trend

FUEL

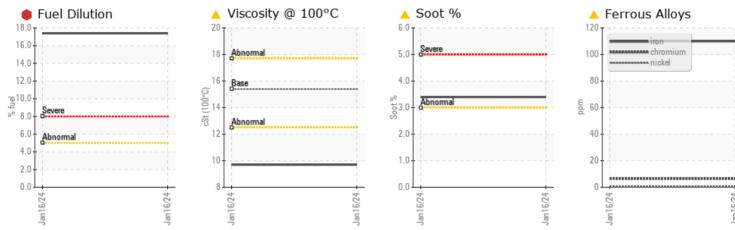
Jan 16/24



Machine Id 724020 Component **Diesel Engine** PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

Fluid



RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>80	<u> </u>				
Chromium	ppm	ASTM D5185m	>5	<u> </u>				
Fuel	%	ASTM D3524	>5	• 17.4				
Soot %	%	*ASTM D7844	>3	A 3.4				
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<u> </u>				
Visc @ 100°C	cSt	ASTM D445	15.4	<mark>/</mark> 9.7				

Customer Id: GFL952 Sample No.: GFL0093834 Lab Number: 06067354 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id 724020 Component

Fluic

Diesel Engine

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

SAMPLE INFORMATION method GFL0093834 Sample Number **Client Info** Sample Date Client Info 16 Jan 2024 15332 Machine Age hrs **Client Info** Oil Age hrs Client Info 600 Oil Changed Changed **Client Info** SEVERE Sample Status CONTAMINATION Water WC Method >0.2 NEG ---WC Method Glycol NEG WEAR METALS method Iron ASTM D5185m >80 **110** ppm 6 Chromium ppm ASTM D5185m >5 Nickel ASTM D5185m >2 <1 ppm ASTM D5185m 0 Titanium ppm Silver ppm ASTM D5185m >3 0 Aluminum ASTM D5185m >30 6 ppm ASTM D5185m >30 Lead ppm <1 ASTM D5185m >150 Copper 2 ppm Tin ppm ASTM D5185m >5 <1 Vanadium ASTM D5185m 0 ppm Cadmium ppm ASTM D5185m 0 **ADDITIVES** history2 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 0 ASTM D5185m 60 40 Molybdenum ppm Manganese ppm ASTM D5185m 0 1 1010 655 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 679 ppm Phosphorus ppm ASTM D5185m 1150 612 Zinc ppm ASTM D5185m 1270 828 Sulfur 2060 ppm ASTM D5185m 1796 CONTAMINANTS Silicon ASTM D5185m >20 10 --ppm ---2 Sodium ASTM D5185m ppm Potassium ASTM D5185m >20 1 ppm Fuel % ASTM D3524 >5 17.4 **INFRA-RED** % **3.4** Soot % *ASTM D7844 >3 Nitration Abs/cm *ASTM D7624 >20 17.6 Sulfation Abs/.1mm *ASTM D7415 >30 33.7 FLUID DEGRADATION method *ASTM D7414 >25 38.6 Oxidation Abs/.1mm Base Number (BN) mg KOH/g ASTM D2896 9.8 2.5

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

📥 Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

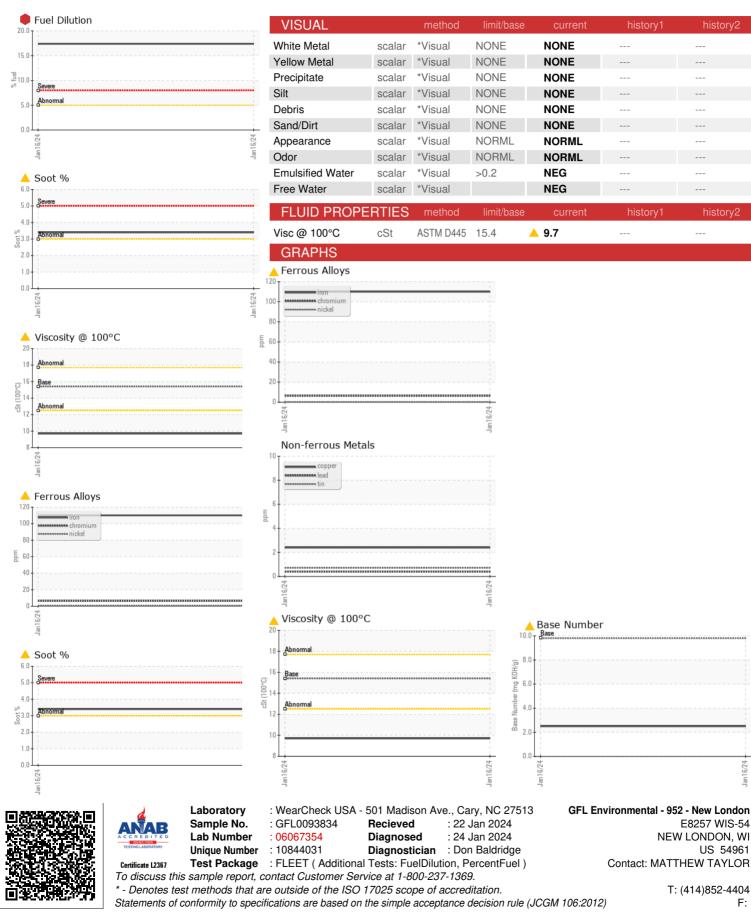
There is an abnormal amount of solids and carbon present in the oil. There is a high amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.



OIL ANALYSIS REPORT



Contact/Location: MATTHEW TAYLOR - GFL952

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