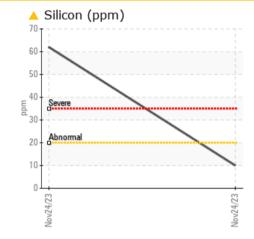
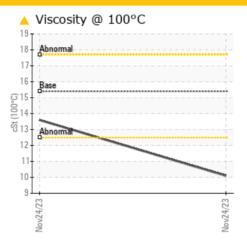
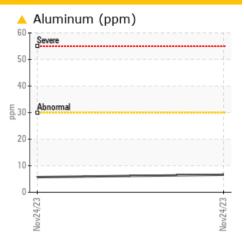


COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL				
Aluminum	ppm	ASTM D5185m	>30	<u> </u>	7				
Silicon	ppm	ASTM D5185m	>20	<u> </u>	10				
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	13.6				

Customer Id: GFL415 Sample No.: GFL0089130 Lab Number: 06017718 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

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 Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.			

HISTORICAL DIAGNOSIS



24 Nov 2023 Diag: Wes Davis



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





DIAGNOSIS

Recommendation

service interval to monitor.

Contamination

(coarse dirt) ingress.

Fluid Condition

the oil. Confirm oil type.

All component wear rates are normal.

A Wear

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Component **Diesel Engine**

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

SAMPLE INFORMATION method limit/base current history1 history2 GFL0089130 GFL0089095 Sample Number **Client Info** We advise that you check the air filter, air induction Sample Date Client Info 24 Nov 2023 24 Nov 2023 system, and any areas where dirt may enter the Machine Age hrs Client Info 6454 6436 component. Oil and filter change at the time of Oil Age hrs Client Info 2840 0 sampling has been noted. Resample at the next Oil Changed **Client Info** Changed Not Changd ABNORMAL Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 >0.2 NEG Water WC Method NEG Fuel content negligible. Elemental levels of silicon WC Method Glycol NEG NEG (Si) and aluminum (Al) indicate alumina-silicate WEAR METALS limit/base method current historv1 history2 24 Iron ASTM D5185m >80 23 ppm The oil viscosity is lower than normal. The BN result 2 Chromium ppm ASTM D5185m >5 <1 indicates that there is suitable alkalinity remaining in Nickel ASTM D5185m >2 2 0 ppm Titanium ppm ASTM D5185m <1 <1 Silver ppm ASTM D5185m >3 <1 0 Aluminum ASTM D5185m >30 6 7 ppm ASTM D5185m >30 0 Lead ppm <1 Copper ASTM D5185m >150 129 1 ppm 2 0 Tin ppm ASTM D5185m >5 Vanadium ASTM D5185m ppm <1 <1 Cadmium ppm ASTM D5185m 0 0 **ADDITIVES** method limit/base current history1 history2 4 Boron ppm ASTM D5185m 0 256 Barium ppm ASTM D5185m 0 0 0 ASTM D5185m 60 100 57 Molybdenum ppm Manganese ASTM D5185m 0 3 <1 ppm 1010 684 959 Magnesium ppm ASTM D5185m Calcium ASTM D5185m 1070 1293 1051 ppm Phosphorus ppm ASTM D5185m 1150 746 940 Zinc ASTM D5185m 1270 847 1303 ppm Sulfur 2060 3169 ppm ASTM D5185m 2390 **CONTAMINANTS** method limit/base current history1 history2 Silicon ASTM D5185m >20 62 10 ppm Sodium ASTM D5185m 6 3 ppm Potassium ASTM D5185m >20 6 6 ppm Fuel % ASTM D3524 >5 0.6 <1.0 **INFRA-RED** method limit/base current history1 history2 % >3 0.3 0.2 Soot % *ASTM D7844 Nitration Abs/cm *ASTM D7624 >20 8.3 6.8 Sulfation *ASTM D7415 >30 24.9 18.4 Abs/.1mm FLUID DEGRADATION method limit/base current history1 history2 Abs/.1mm *ASTM D7414 >25 20.9 14.5 Oxidation

Base Number (BN) mg KOH/g ASTM D2896 9.8

8.7

8.5



OIL ANALYSIS REPORT

