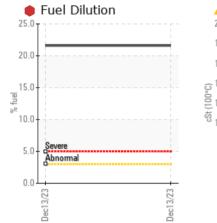
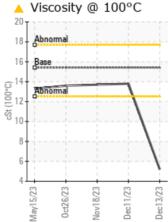
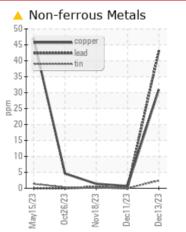
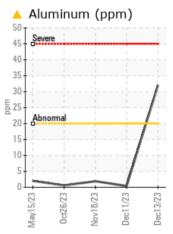


COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS NORMAL Sample Status SEVERE NORMAL Aluminum ASTM D5185m >20 2 ppm <1 Lead ppm ASTM D5185m >40 0 <1 Fuel % 21.6 ASTM D3524 >3.0 <1.0 <1.0 Base Number (BN) mg KOH/g ASTM D2896 9.8 **1.9** 8.3 8.9 Visc @ 100°C cSt **5.2** 13.8 ASTM D445 15.4 13.7

Customer Id: GFL415 Sample No.: GFL0105666 Lab Number: 06035694 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDE	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.				
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



11 Dec 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.





18 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.

26 Oct 2023 Diag: Wes Davis

NORMAL



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.

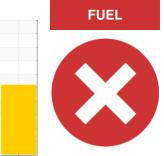






OIL ANALYSIS REPORT

Sample Rating Trend



913061 Component Diesel Engine

Machine Id

Fluid

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

DIAGNOSIS Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

The aluminum level is abnormal. The lead level is abnormal.

Contamination

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.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105666	GFL0105592	GFL0089167
Sample Date		Client Info		13 Dec 2023	11 Dec 2023	18 Nov 2023
Machine Age	hrs	Client Info		3335	3311	3135
Oil Age	hrs	Client Info		3135	3135	2997
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	65	7	8
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	2	2
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ 32	<1	2
Lead	ppm	ASTM D5185m	>40	▲ 43	0	<1
Copper	ppm	ASTM D5185m	>330	31	<1	1
Tin	ppm	ASTM D5185m	>15	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	33	<1	<1
Barium	ppm	ASTM D5185m		0	0	9
Molybdenum	ppm	ASTM D5185m	60	6	52	68
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	94	993	1014
Calcium	ppm	ASTM D5185m	1070	197	1092	1223
Phosphorus	ppm	ASTM D5185m	1150	250	1049	1145
Zinc	ppm	ASTM D5185m	1270	95	1236	1333
Sulfur	ppm	ASTM D5185m	2060	1443	3044	3344
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	5
Sodium	ppm	ASTM D5185m		6	2	2
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Fuel	%	ASTM D3524	>3.0	e 21.6	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.5	0.3
Nitration	Abs/cm	*ASTM D7624		6.1	6.7	6.1
Sulfation	Abs/.1mm	*ASTM D7415		25.2	18.8	18.7
FLUID DEGRAD	AT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.3	14.4	14.7
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 1.9	8.3	8.9
	ing noring	. IO HIL DLOVO	0.0	_ 1.9	0.0	0.0



OIL ANALYSIS REPORT

