





#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC	OBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	NORMAL	
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	17	55	

Customer Id: GFL622 Sample No.: GFL0083946 Lab Number: 05872619 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 <u>customerservice@wearcheck.com</u>

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.			

### HISTORICAL DIAGNOSIS



## 14 Mar 2023 Diag: Sean Felton

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.



view report

#### 13 Oct 2022 Diag: Wes Davis





Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

#### 04 May 2022 Diag: Jonathan Hester





Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. 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





Machine Id 411016-1387 Component

**Diesel Engine** Fluid

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

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0083946	GFL0071427	GFL0058403
Dil and filter change at the time of sampling has	Sample Date		Client Info		09 Jun 2023	14 Mar 2023	13 Oct 2022
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		3173	2080	1705
o monitor.	Oil Age	hrs	Client Info		625	1103	610
Wear	Oil Changed		Client Info		Changed	Not Changd	Changed
The aluminum level is abnormal. All other component wear rates are normal.	Sample Status				ABNORMAL	NORMAL	NORMAL
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
There is no indication of any contamination in the	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
bil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METAL	S	method	limit/base	current	history1	history2
alkalinity remaining in the oil. The condition of the	Iron	ppm	ASTM D5185m	>120	44	15	55
il is acceptable for the time in service.	Chromium	ppm	ASTM D5185m	>20	1	<1	2
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	mag	ASTM D5185m	>20	▲ 30	17	55
	Lead	nnm	ASTM D5185m	>40	0	0	<1
	Conner	nnm	ASTM D5185m	>330	5	2	10
	Tin	nnm	ASTM D5185m	>15	_1	0	-1
	Vanadium	ppm	ASTM D5185m	>10	0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
		pp	method	limit/base	current	history1	history
	Deven			0		0	0
	Boron	ppm	ASTM D5185M	0	<1	2	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	63	56	58
	Manganese	ppm	ASTM D5185m	0	<1	<1	1
	Magnesium	ppm	ASTM D5185m	1010	951	873	871
	Calcium	ppm	ASTM D5185m	1070	1092	970	1086
	Phosphorus	ppm	ASTM D5185m	1150	992	893	881
	Zinc	ppm	ASTM D5185m	1270	1244	1126	1119
	Sulfur	ppm	ASTM D5185m	2060	2989	3049	3110
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	6	5	10
	Sodium	ppm	ASTM D5185m		0	1	1
	Potassium	ppm	ASTM D5185m	>20	25	11	99
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.5	0.2	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	7.0	13.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	18.2	24.3
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	14.3	20.7
	Deee Number (DNI)	m n 1/011/n		0.0	<u> </u>	0.0	7 5



# **OIL ANALYSIS REPORT**









Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: TECHNICIAN ACCOUNT

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