

#### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIO	C TEST	RESULT	S			
Sample Status				ABNORMAL	ABNORMAL	
Fuel	%	ASTM D3524	>5	<b>6</b> 5.3	<b>7.8</b>	

Customer Id: GFL415 Sample No.: GFL0086695 Lab Number: 05887279 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		

### HISTORICAL DIAGNOSIS

### 10 May 2021 Diag: Jonathan Hester



We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 4670M

Component **Diesel Engine** Fluid

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

				may2021	JU112023		
DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Recommendation	Sample Number		Client Info		GFL0086695	GFL0018151	
he oil change at the time of sampling has been	Sample Date		Client Info		27 Jun 2023	10 May 2021	
noted. We recommend an early resample to nonitor this condition.	Machine Age	hrs	Client Info		15621	8116	
	Oil Age	hrs	Client Info		8116	8116	
ear	Oil Changed		Client Info		Changed	Changed	
component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	
Contamination	CONTAMINA	TION	method	limit/base		history 1	history 2
ere is a moderate amount of fuel present in the Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	
uid Condition e BN result indicates that there is suitable	WEAR META	LS	method	limit/base	current	history 1	history 2
	Iron	ppm	ASTM D5185m	~80	33	47	
linity remaining in the oil. The oil is no longer viceable due to the presence of contaminants.	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel		ASTM D5185m		1	<1	
	Titanium	ppm	ASTM D5185m	26	0	<1	
	Silver	ppm		- 2			
		ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m	>5	<1	<1	
	Antimony	ppm	ASTM D5185m			0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron	ppm	ASTM D5185m	0	<1	4	
	Barium	ppm	ASTM D5185m	0	0	<1	
	Molybdenum	ppm	ASTM D5185m	60	62	57	
	Manganese	ppm	ASTM D5185m	0	<1	<1	
	Magnesium	ppm	ASTM D5185m		945	851	
	Calcium	ppm	ASTM D5185m	1070	1102	991	
	Phosphorus	ppm	ASTM D5185m		1008	933	
	Zinc	ppm	ASTM D5185m		1286	1148	
	Sulfur	ppm	ASTM D5185m		2821	2160	
	CONTAMINA	NTS	method	limit/base	current	history 1	history 2
	Silicon	ppm	ASTM D5185m	>20	4	12	
	Sodium	ppm	ASTM D5185m		6	10	
	Potassium	ppm	ASTM D5185m	>20	4	2	
	Fuel	%	ASTM D3524	>5	<b>6</b> 5.3	<b>▲</b> 7.8	
	INFRA-RED		method	limit/base	current	history 1	history 2
				0	0.0	0.0	
	Soot %	%	*ASTM D7844	>3	0.8	0.9	
	Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7624	>20	10.8 10.4 23.8	12	
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	10.4 23.8	12 25	
	Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base	10.4 23.8	12	

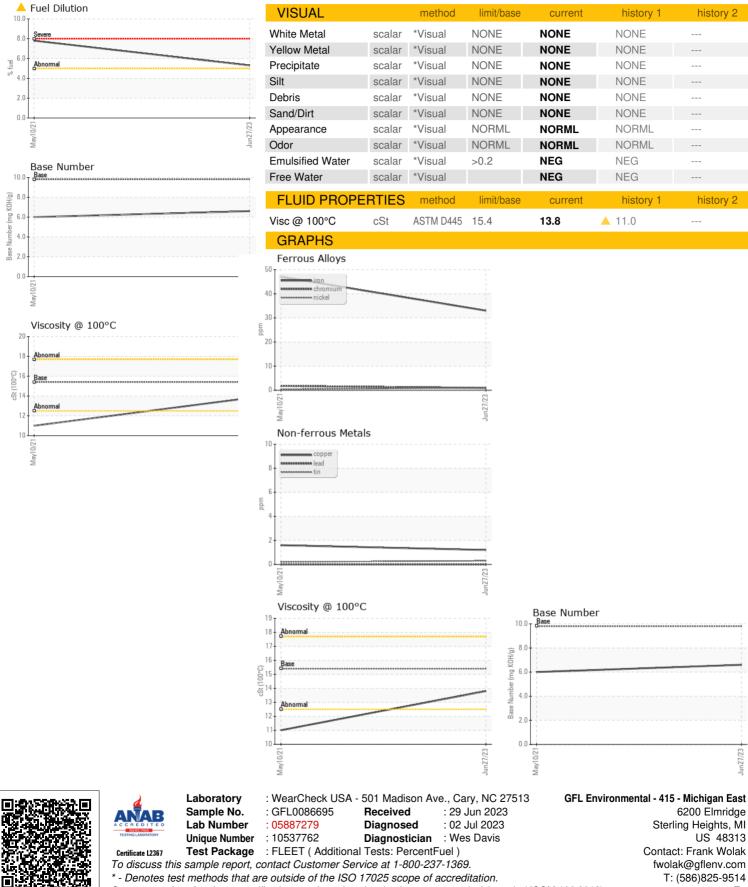
Base Number (BN) mg KOH/g ASTM D2896 9.8

6

6.6



# **OIL ANALYSIS REPORT**



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

Submitted By: Frank Wolak

US 48313

F:

history 2

history