

## 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						
Sample Status				SEVERE	SEVERE	SEVERE
Fuel	%	ASTM D3524	>3.0	<b>e</b> 28.1	24.1	10.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>A</b> 8.3	9.4	<b>11.0</b>

Customer Id: GFL465 Sample No.: GFL0082735 Lab Number: 05886391 Test Package: FLEET



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*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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.	
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



## 03 May 2023 Diag: Wes Davis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



view report



#### 23 Nov 2022 Diag: Don Baldridge

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high 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.

#### 11 Aug 2022 Diag: Jonathan Hester



We advise that you check the fuel injection system. The oil 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.

2077 STATE





## **OIL ANALYSIS REPORT**

Sample Rating Trend



**FUEL** 

27.0

6.3

Component **Diesel Engine** Fluid

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

	SAMPLE INFO	RMATION	method	limit/base	current	history 1	history 2
	Sample Number		Client Info		GFL0082735	GFL0081290	GFL0063243
fuel injection system. ne of sampling has	Sample Date		Client Info		23 Jun 2023	03 May 2023	23 Nov 2022
	Machine Age	mls	Client Info		179679	23302	22312
n early resample to	Oil Age	mls	Client Info		600	600	600
	Oil Changed		Client Info		Changed	Changed	Changed
ormal.	Sample Status				SEVERE	SEVERE	SEVERE
onnai.	CONTAMINA	TION	method	limit/base	current	history 1	history 2
present in the oil.	Glycol		WC Method		NEG	NEG	NEG
owaring the	WEAR META	LS	method	limit/base	current	history 1	history 2
owering the es that there is	Iron	ppm	ASTM D5185m	>90	29	28	56
he oil.	Chromium	ppm	ASTM D5185m		2	2	2
	Nickel	ppm	ASTM D5185m	>2	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	2	1	2
	Lead	ppm	ASTM D5185m	>40	0	1	<1
	Copper	ppm	ASTM D5185m	>330	2	2	3
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron	ppm	ASTM D5185m	0	2	3	5
	Barium	ppm	ASTM D5185m	0	0	0	<1
	Molybdenum	ppm	ASTM D5185m	60	38	44	49
	Manganese	ppm	ASTM D5185m	0	<1	<1	2
	Magnesium	ppm	ASTM D5185m	1010	613	634	745
	Calcium	ppm	ASTM D5185m	1070	683	790	990
	Phosphorus	ppm	ASTM D5185m	1150	665	711	796
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060	813 2243	906 2234	1002 2609
	CONTAMINA		method	limit/base	current	history 1	history 2
	Silicon	ppm	ASTM D5185m		3	5	8
	Sodium	ppm	ASTM D5185m		4	2	3
	Potassium	ppm	ASTM D5185m	>20	2	-	0
	Fuel	%	ASTM D3524		<b>28.1</b>	24.1	10.2
	INFRA-RED		method	limit/base	current	history 1	history 2
	Soot %	%	*ASTM D7844	>6	0.6	0.4	0.9
	Nitration	Abs/cm	*ASTM D7624		13.4	12.2	13.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	20.2	25.6
	FLUID DEGRA		method	limit/base	current	history 1	history 2

Abs/.1mm \*ASTM D7414 >25

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

#### We advise that you check the Oil and filter change at the time been noted. We recommend a monitor this condition.

Machine Id 495M

## Wear

All component wear rates are

#### Contamination

There is a high amount of fuel

#### Fluid Condition

Fuel is present in the oil and is viscosity. The BN result indicat suitable alkalinity remaining in

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Oxidation

24.9

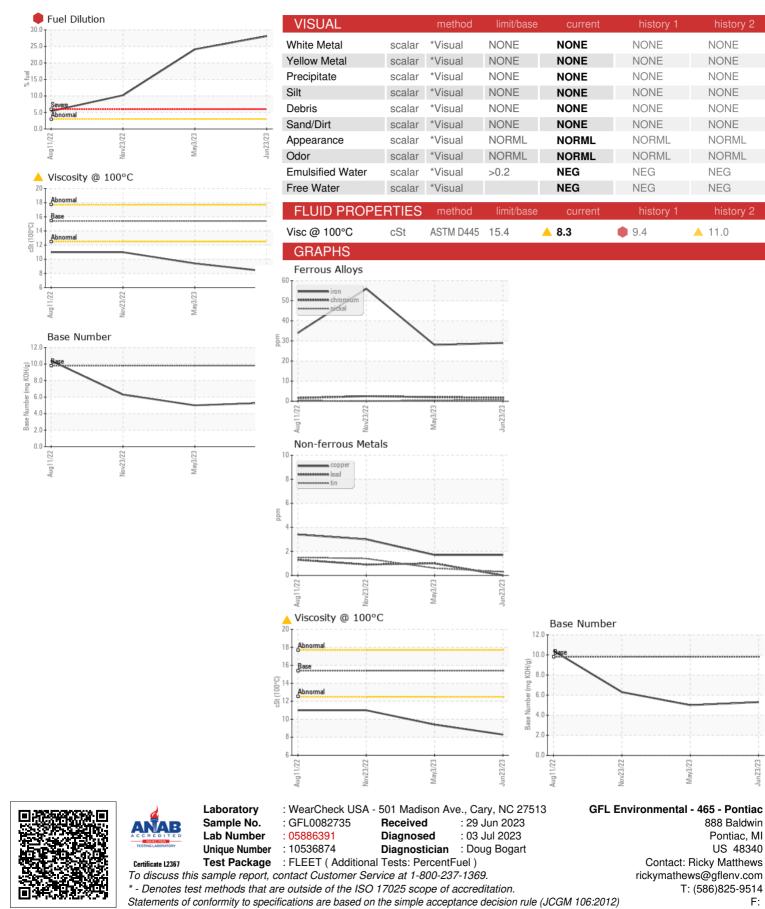
5.0

29.6

5.3



# **OIL ANALYSIS REPORT**



Submitted By: Ricky Matthews

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