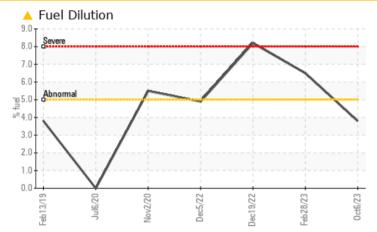


### Machine Id 727066-310046

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				MARGINAL	ABNORMAL	NORMAL				
Fuel	%	ASTM D3524	>5	<b>A</b> 3.8	<b>6</b> .5	<1.0				

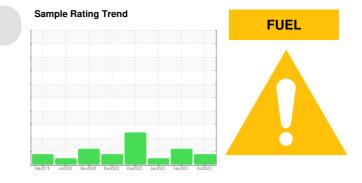
Customer Id: GFL829 Sample No.: GFL0065463 Lab Number: 05974655 Test Package: FLEET



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**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 28 Feb 2023 Diag: Jonathan Hester



We advise that you check the fuel injection system. 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.

#### 10 Jan 2023 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. 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



# FUEL

### 19 Dec 2022 Diag: Don Baldridge

of the oil is suitable for further service.



We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. 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. The oil is no longer serviceable due to the presence of contaminants.







### **OIL ANALYSIS REPORT**



# Machine Id 727066-310046

### Component **Diesel Engine**

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

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number		Client Info		GFL0065463	GFL0065547	GFL0051280
Sample Date		Client Info		06 Oct 2023	28 Feb 2023	10 Jan 2023
Machine Age	hrs	Client Info		16296	0	0
Oil Age	hrs	Client Info		150	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				MARGINAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	6	18	8
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	1	2
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	51	54	54
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	880	831	921
Calcium	ppm	ASTM D5185m	1070	886	973	1000
Phosphorus	ppm	ASTM D5185m	1150	908	927	946
Zinc	ppm	ASTM D5185m	1270	1135	1127	1216
Sulfur	ppm	ASTM D5185m	2060	2747	2604	3342
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	5	4	4
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	3	2	3
Fuel	%	ASTM D3524	>5	<mark>/</mark> 3.8	<b>6</b> .5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	0.4
Nitration	Abs/cm	*ASTM D7624		7.7	10.4	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.6	18.9
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	18.1	14.7
Base Number (BN)	mg KOH/g		9.8	8.7	8.2	0.0
Dase Nulliber (DN)	IIIy NOTI/u	AGTIVI D2030	3.0	0.7	0.2	9.0



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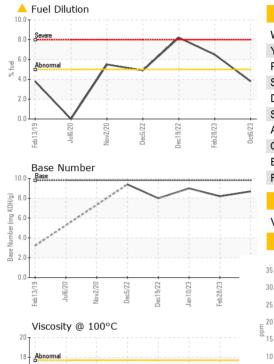
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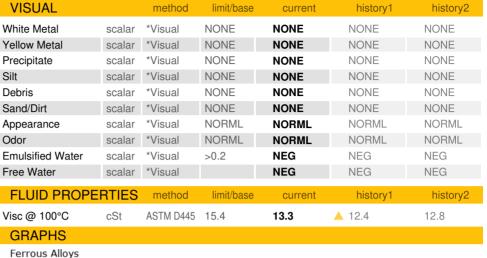
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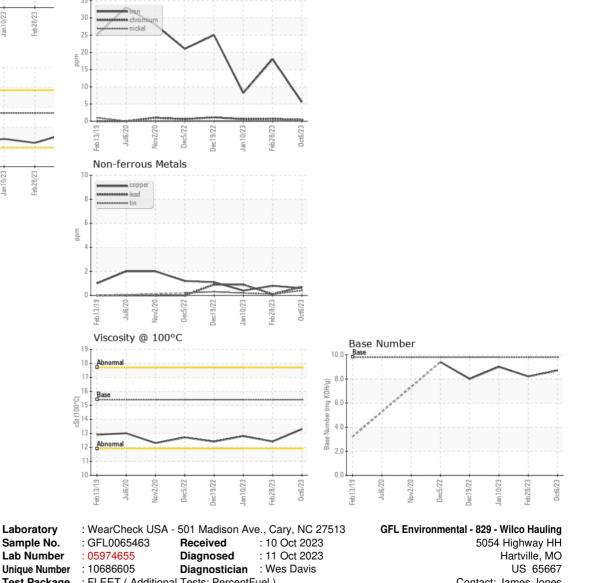
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## **OIL ANALYSIS REPORT**







Certificate L2367 

**Contact: James Jones** james.jones@gflenv.com T: (417)349-5006 F: