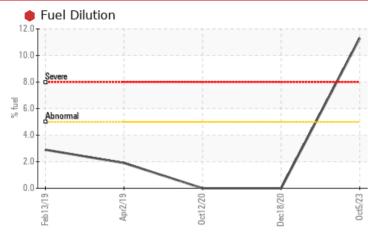
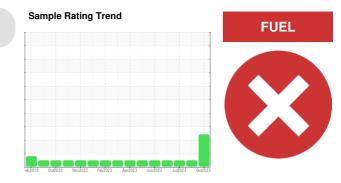


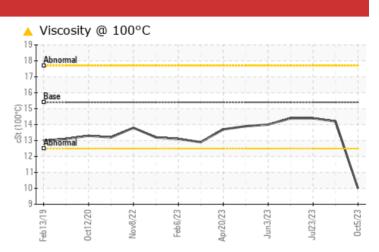
## Machine Id 727101-361671

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

## COMPONENT CONDITION SUMMARY







## RECOMMENDATION

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. ( Customer Sample Comment: / )

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	NORMAL			
Fuel	%	ASTM D3524	>5	🛑 11.3	<1.0	<1.0			
Visc @ 100°C	cSt	ASTM D445	15.4	<b>10.00</b>	14.2	14.4			

Customer Id: GFL821 Sample No.: GFL0090153 Lab Number: 05972481 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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid	MISSED	Oct 18 2023	?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Change Filter	MISSED	Oct 18 2023	?	We recommend that you drain the oil and perform a filter service on this component if not already done.			
Resample	MISSED	Oct 18 2023	?	We recommend an early resample to monitor this condition.			
Check Fuel/injector System	MISSED	Oct 18 2023	?	We advise that you check the fuel injection system.			

## HISTORICAL DIAGNOSIS



03 Oct 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.





23 Jul 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.

#### 04 Jul 2023 Diag: Doug Bogart

#### 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

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727101-361671

#### Component Diesel Engine

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

### DIAGNOSIS

#### Recommendation

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. ( Customer Sample Comment: / )

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of fuel present in the oil.

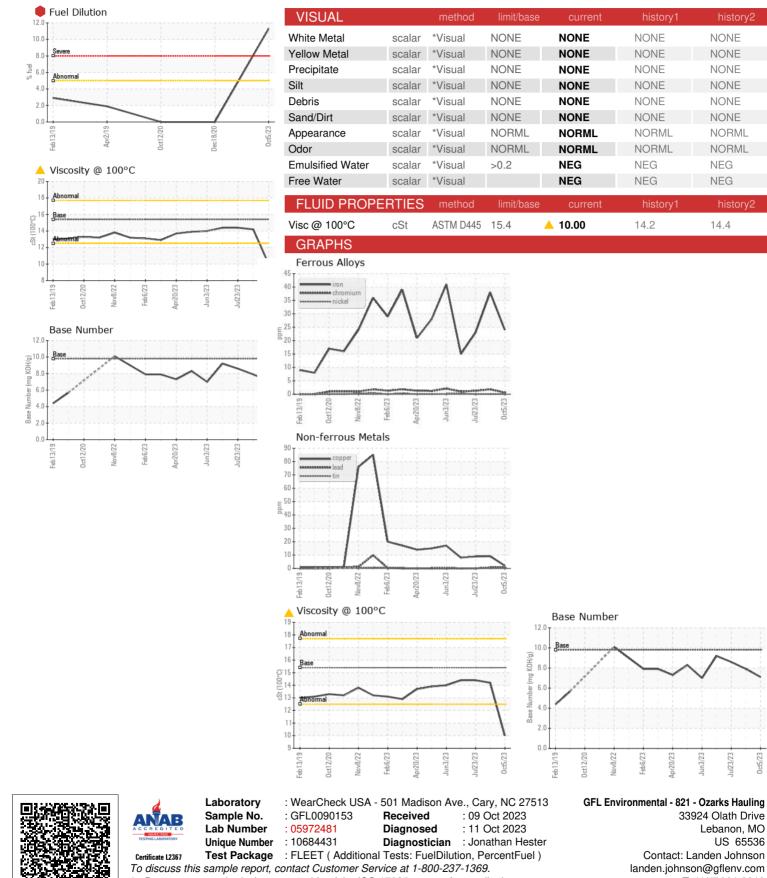
#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090153	GFL0090208	GFL0076804
Sample Date		Client Info		05 Oct 2023	03 Oct 2023	23 Jul 2023
Machine Age	hrs	Client Info		6168	6168	5837
Oil Age	hrs	Client Info		150	600	150
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				SEVERE	NORMAL	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	>100	24	38	23
Chromium	ppm	ASTM D5185m	>20	<1	2	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		5	9	0
Lead	ppm	ASTM D5185m	>40	ر <1	<1	0
Copper	ppm	ASTM D5185m	>330	2	9	9
Tin		ASTM D5185m	>15	2 <1	<1	0
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm	ASTIVI DOTODIII		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	51	59	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	793	1004	908
Calcium	ppm	ASTM D5185m	1070	877	1049	1091
Phosphorus	ppm	ASTM D5185m	1150	885	1016	1044
Zinc	ppm	ASTM D5185m	1270	1058	1346	1252
Sulfur	ppm	ASTM D5185m	2060	2829	3120	3062
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	7
Sodium	ppm	ASTM D5185m		36	7	5
Potassium	ppm	ASTM D5185m	>20	7	0	2
Fuel	%	ASTM D3524	>5	<b>e</b> 11.3	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	1.3	0.9
Nitration	Abs/cm	*ASTM D7624		7.5	10.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415		19.6	21.7	19.9
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	17.4	15.2
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896		7.1	7.9	8.6
Dase Multiber (DIV)	IIIg NOR/g	AGTINI DZ030	5.0	7.1	1.5	0.0



# **OIL ANALYSIS REPORT**



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

0ct5/23

un3/73

33924 Olath Drive

T: (417)664-0010

Lebanon, MO

US 65536

F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.4