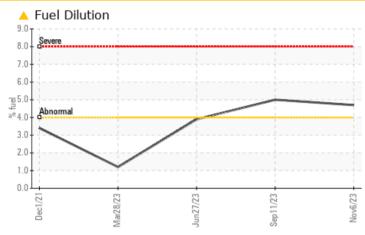
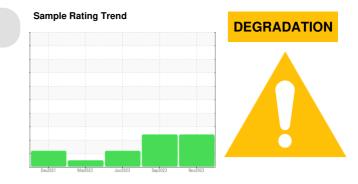


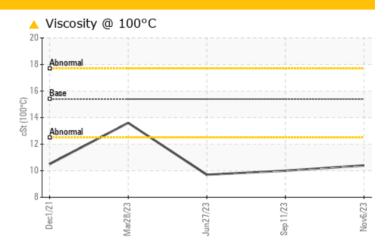
Machine Id 255001-838

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

### COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. ( Customer Sample Comment: Sample only, actual miles 180842 )

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL				
Fuel	%	ASTM D3524	>4.0	<u> </u>	<b>5</b> .0	<b>3</b> .9		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>A</b> 2.6	<b>2</b> .5	4.5		
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	<b>1</b> 0.0	<b>9</b> .7		

Customer Id: GFL625 Sample No.: GFL0094853 Lab Number: 06002096 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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			
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

#### **HISTORICAL DIAGNOSIS**



11 Sep 2023 Diag: Jonathan Hester

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. 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 level is low.



view report

#### 27 Jun 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.

#### 28 Mar 2023 Diag: Don Baldridge





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.

#### view report





## **OIL ANALYSIS REPORT**





Machine Id 255001-838

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

#### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. ( Customer Sample Comment: Sample only, actual miles 180842 )

#### Wear

All component wear rates are normal.

#### Contamination

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

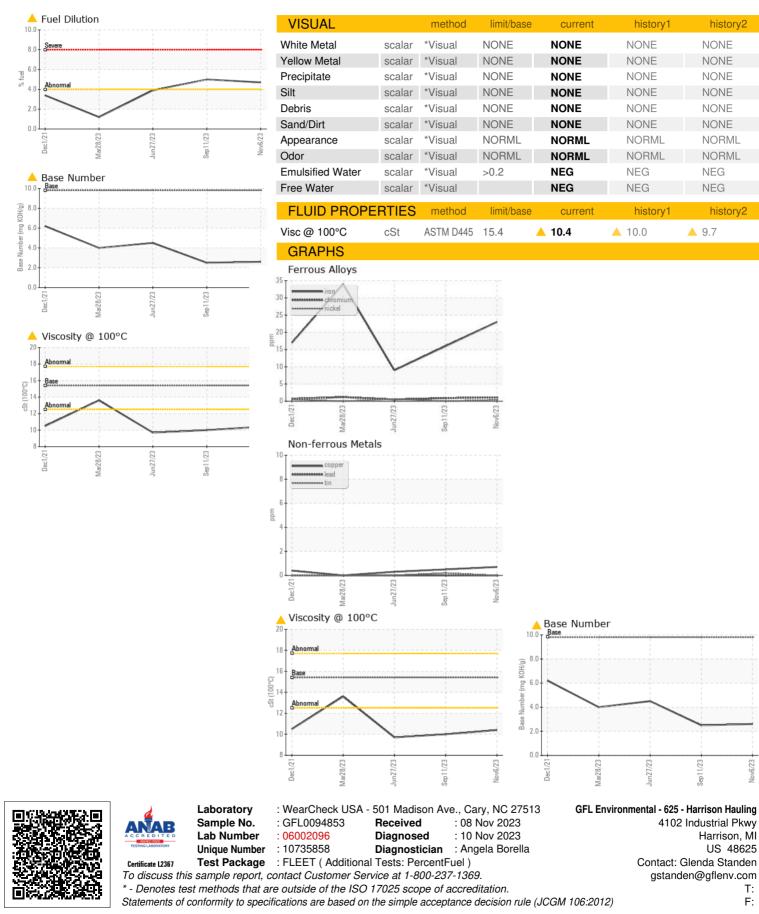
#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094853	GFL0088271	GFL0077496
Sample Date		Client Info		06 Nov 2023	11 Sep 2023	27 Jun 2023
Machine Age	mls	Client Info		180842	177458	171656
Oil Age	mls	Client Info		11253	7869	2067
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	>150	23	16	9
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	4	3	<1
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	21	25	68
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	86	83	67
Manganese	ppm	ASTM D5185m	0	1	2	<1
Magnesium	ppm	ASTM D5185m	1010	492	506	499
Calcium	ppm	ASTM D5185m	1070	876	876	865
Phosphorus	ppm	ASTM D5185m	1150	540	604	598
Zinc	ppm	ASTM D5185m	1270	703	675	696
Sulfur	ppm	ASTM D5185m	2060	2213	2566	2497
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	17	12	8
Sodium	ppm	ASTM D5185m	>400	2	4	3
Potassium	ppm	ASTM D5185m	>20	3	1	2
Fuel	%	ASTM D3524	>4.0	<u> </u>	▲ 5.0	▲ 3.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	16.0	13.1	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.8	27.6	20.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.9	24.3	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>2.6</b>	▲ 2.5	4.5



# **OIL ANALYSIS REPORT**



Submitted By: also GFL632 and GFL638 - Glenda Standen