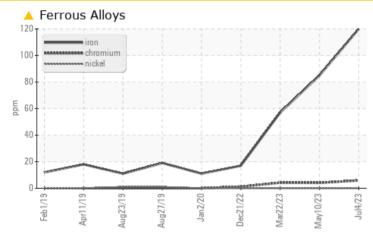
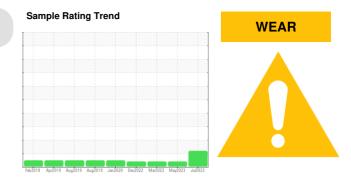


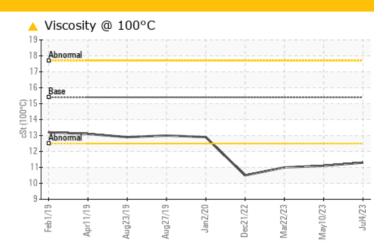
# 721024-361461

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				ABNORMAL	ATTENTION	ATTENTION				
Iron	ppm	ASTM D5185m	>100	<u> </u>	85	57				
Visc @ 100°C	cSt	ASTM D445	15.4	<b>11.3</b>	<b>11.1</b>	<b>1</b> 1.0				

Customer Id: GFL821 Sample No.: GFL0076779 Lab Number: 05892057 Test Package: FLEET



To manage this report scan the QR code

*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**

There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 10 May 2023 Diag: Don Baldridge



No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

#### 22 Mar 2023 Diag: Jonathan Hester





No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



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### VISCOSITY



### 21 Dec 2022 Diag: Jonathan Hester

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. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





Report Id: GFL821 [WUSCAR] 05892057 (Generated: 07/09/2023 15:13:20) Rev: 1



### **OIL ANALYSIS REPORT**

### Sample Rating Trend

**WEAR** 

### Machine Id

721024-361461 Component

**Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (---

### DIAGNOSIS

### Recommendation

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

### A Wear

Cylinder, crank, or cam shaft wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

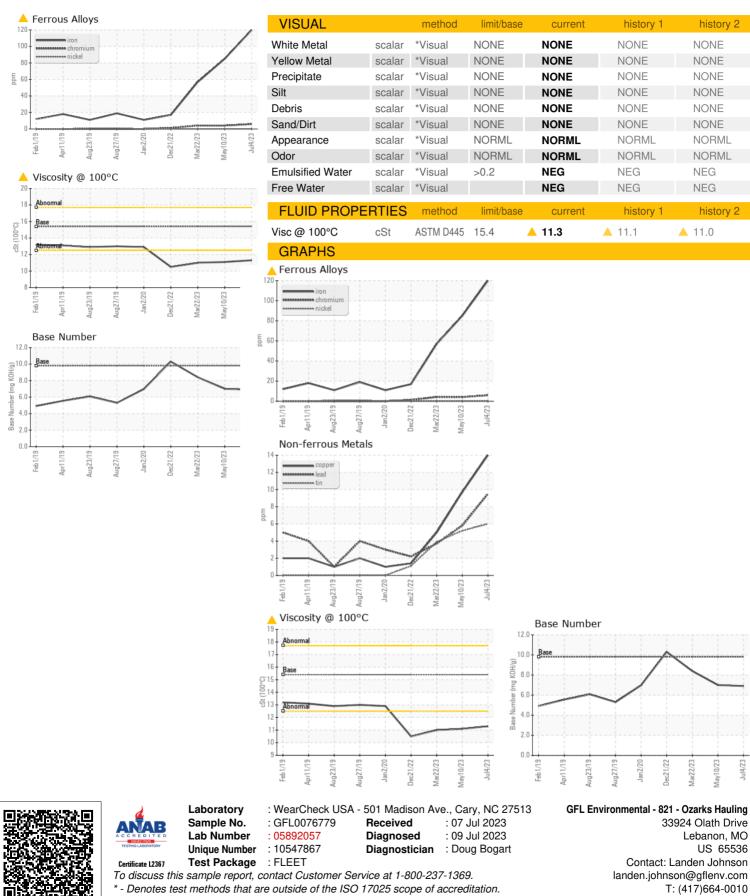
### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

GAL)									
SAMPLE INFORM	NATION	method	limit/base	current	history 1	history 2			
Sample Number		Client Info		GFL0076779	GFL0076825	GFL0051323			
Sample Date		Client Info		04 Jul 2023	10 May 2023	22 Mar 2023			
Machine Age	hrs	Client Info		5854	5485	5132			
Oil Age	hrs	Client Info		150	200	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				ABNORMAL	ATTENTION	ATTENTION			
CONTAMINATI	ON	method	limit/base	current	history 1	history 2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS	S	method	limit/base	current	history 1	history 2			
Iron	ppm	ASTM D5185m	>100	<b>120</b>	85	57			
Chromium	ppm	ASTM D5185m	>20	6	4	4			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m		<1	<1	0			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	6	6	4			
Lead	ppm	ASTM D5185m	>40	10	6	4			
Copper	ppm	ASTM D5185m	>330	14	10	5			
Tin	ppm	ASTM D5185m	>15	6	5	4			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history 1	history 2			
Boron	ppm	ASTM D5185m	0	9	8	10			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	65	58	57			
Manganese	ppm	ASTM D5185m	0	2	1	2			
Magnesium	ppm	ASTM D5185m	1010	950	877	841			
Calcium	ppm	ASTM D5185m	1070	1198	1145	1139			
Phosphorus	ppm	ASTM D5185m	1150	1027	956	905			
Zinc	ppm	ASTM D5185m	1270	1330	1203	1146			
Sulfur	ppm	ASTM D5185m	2060	3440	3064	2994			
CONTAMINAN	TS	method	limit/base	current	history 1	history 2			
Silicon	ppm	ASTM D5185m	>25	25	21	20			
Sodium	ppm	ASTM D5185m		12	11	9			
Potassium	ppm	ASTM D5185m	>20	3	1	0			
		method	limit/base	current	history 1	history 2			
INFRA-RED				1.2	0.9	0.5			
	%	*ASTM D7844	>3	1.2	0.0				
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624		13.2	12.0	9.6			
INFRA-RED Soot % Nitration Sulfation						9.6 19.8			
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	13.2 24.2	12.0	19.8			
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	13.2 24.2	12.0 22.6				



## **OIL ANALYSIS REPORT**



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

Contact/Location: GFL821, GFL824 and GFL829 - Landen Johnson - GFL821

F: