# **PROBLEM SUMMARY**

Machine Id 721029-310095

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

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	SEVERE	NORMAL	
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	14	
Potassium	ppm	ASTM D5185m	>20	🔺 15	<b>6</b>	2	

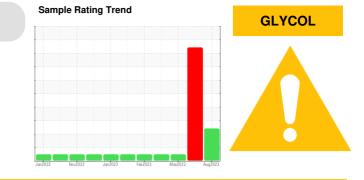
Customer Id: GFL820 Sample No.: GFL0088166 Lab Number: 05918326 Test Package: FLEET



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 <u>customerservice@wearcheck.com</u>



RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Glycol Access			?	We advise that you check for the source of the coolant leak.

## **HISTORICAL DIAGNOSIS**



## 11 Jul 2023 Diag: Wes Davis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition All component wear rates are normal. Test for glycol is positive. There is a high concentration of glycol present in the oil. 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.



view report

### 10 May 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.

### 30 Apr 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.







# **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL

# Machine Id 721029-310095

#### Component Diesel Engine

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

## DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

# Contamination

Sodium and/or potassium levels are high.

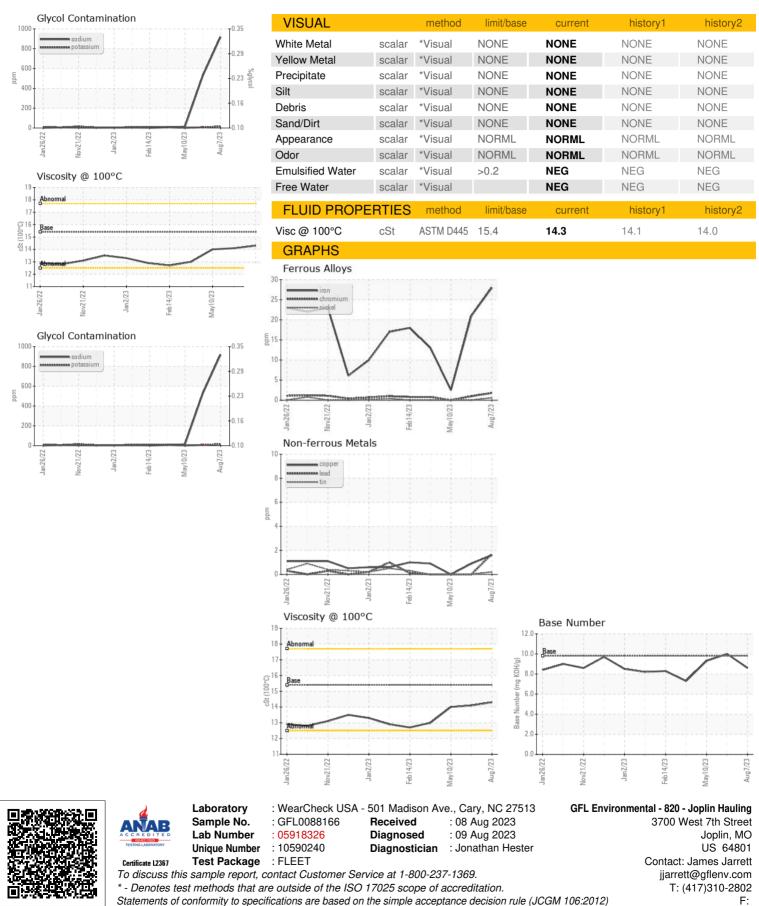
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

		Jan2022	Nov2022 Jan2023	Feb2023 May2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088166	GFL0067725	GFL0067678
Sample Date		Client Info		07 Aug 2023	11 Jul 2023	10 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	21	2
Chromium	ppm	ASTM D5185m	>20	2	1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	4	<1
Lead	ppm	ASTM D5185m	>40	2	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	0
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	12	22	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	142	100	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	767	820	934
Calcium	ppm	ASTM D5185m	1070	1147	1209	1039
Phosphorus	ppm	ASTM D5185m	1150	718	806	979
Zinc	ppm	ASTM D5185m	1270	921	950	1208
Sulfur	ppm	ASTM D5185m	2060	2811	2980	3376
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	8	2
Sodium	ppm	ASTM D5185m		<u> </u>	<mark>▲</mark> 528	14
Potassium	ppm	ASTM D5185m	>20	🔺 15	<b>6</b>	2
Glycol	%	*ASTM D2982		NEG	0.10	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.6	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.1	17.1
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.4	12.2



# **OIL ANALYSIS REPORT**



Report Id: GFL820 [WUSCAR] 05918326 (Generated: 08/09/2023 13:21:09) Rev: 1

Contact/Location: James Jarrett - GFL820