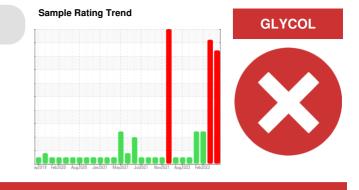
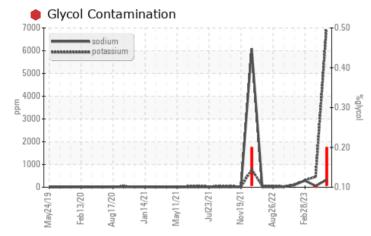


# **PROBLEM SUMMARY**



Machine Id **12010** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (8 GAL)** 

## COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	ABNORMAL	
Sodium	ppm	ASTM D5185m		<u> </u>	<u> </u>	<u> </u>	
Potassium	ppm	ASTM D5185m	>20	🔺 6901	<b>4</b> 55	<b>A</b> 309	
Glycol	%	*ASTM D2982		0.20	0.10	NEG	

Customer Id: GFL018 Sample No.: GFL0080571 Lab Number: 05943404 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			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
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



## 04 Jul 2023 Diag: Wes Davis

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of 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



#### 28 Feb 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. The BN result indicates that there is suitable alkalinity remaining in the oil.

#### 03 Jan 2023 Diag: Jonathan Hester

GLYCOL



We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

GLYCOL

#### Machine Id 12010

Component Diesel Engine

Fluid

## PETRO CANADA DURON SHP 15W40 (8 GAL)

## DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.

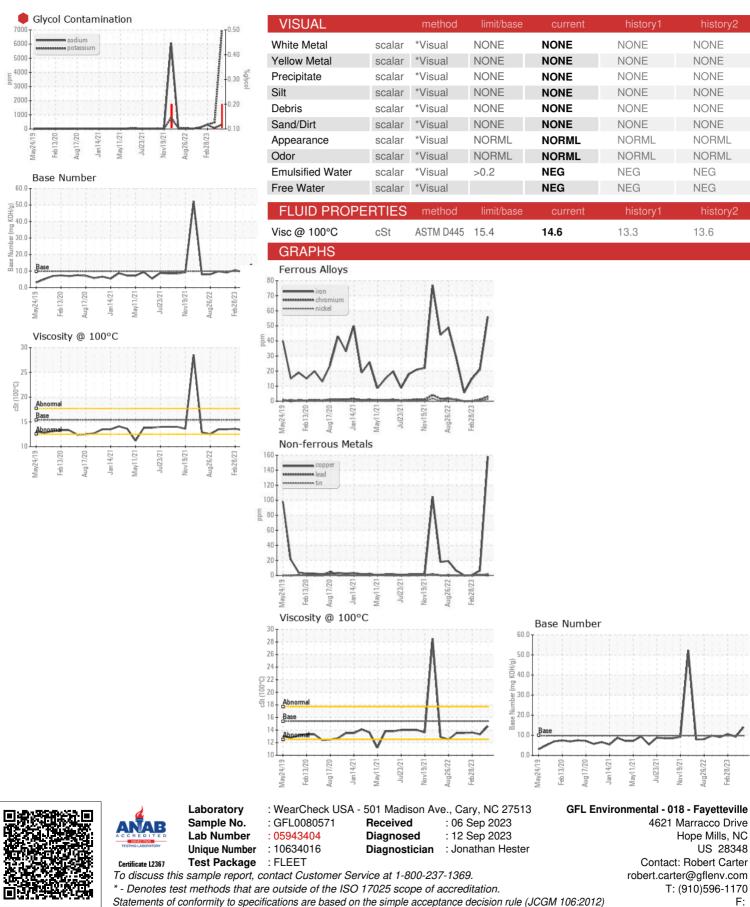
#### Fluid Condition

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 INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080571	GFL0066840	GFL0055903
Sample Date		Client Info		05 Sep 2023	04 Jul 2023	28 Feb 2023
Machine Age	hrs	Client Info		8078	8078	8078
Oil Age	hrs	Client Info		8078	8078	8078
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	56	21	15
Chromium	ppm	ASTM D5185m	>20	3	1	<1
Nickel	ppm	ASTM D5185m	>4	1	0	0
Titanium	ppm	ASTM D5185m		4	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	10	3	7
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm		>330	158	6	<1
	ppm	ASTM D5185m	>15	2	<1	0
	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	9	<b>A</b> 219	19
Barium	ppm	ASTM D5185m	0	6	3	0
Molybdenum	ppm	ASTM D5185m	60	62	77	67
•	ppm	ASTM D5185m	0	5	2	<1
-	ppm	ASTM D5185m	1010	382	▲ 586	716
	ppm	ASTM D5185m	1070	870	1400	1224
	ppm	ASTM D5185m	1150	832	1072	933
	ppm	ASTM D5185m	1270	1054	1316	1057
	ppm	ASTM D5185m	2060	3008	4086	2794
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	8	9
Sodium	ppm	ASTM D5185m		<u> </u>	<u>    60</u>	<b>2</b> 90
Potassium	ppm	ASTM D5185m	>20	<u> </u>	🔺 455	<u> </u>
Glycol	%	*ASTM D2982		0.20	0.10	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	16.5	6.6	7.8
	Abs/.1mm	*ASTM D7415	>30	26.4	20.6	18.0
	/ 100/					
		method	limit/base	current	history1	history2
Sulfation FLUID DEGRAD		method *ASTM D7414	limit/base >25	current 15.6	history1 14.7	history2 13.0



# **OIL ANALYSIS REPORT**



Report Id: GFL018 [WUSCAR] 05943404 (Generated: 09/12/2023 14:36:17) Rev: 1

Submitted By: Robert Carter

Page 4 of 4