

10

Visc @ 100°C

## RECOMMENDATION

Jul26/19

Jov4/19

Abnormal

5.0

0.0

Feb20/1

We advise that you check for the source of the coolant leak. Check for low coolant level. 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.

Aug6/20

Jan 28/21

Mar9/20

	84444	HiHi			() Constant	And a subscription of the local division of	0.00
	Feb20/19 Sep18/19 Mar9/20 Dec23/20	May5/22 Dec16/22	Apr3/23 Jun8/23	Sep 13/23	Feb 20/19 Sep 18/19 Mar9/20	Dec23/20 May5/22 Apr3/23 Apr3/23	Sep 13/23
	PROBLEMATIO	C TEST	RESULT	S			
	Sample Status				SEVERE	NORMAL	NORMAL
е	Sodium	ppm	ASTM D5185m		🔺 168	7	0
	Fuel	%	ASTM D3524	>3.0	<b>2</b> 4.0	<1.0	<1.0

cSt ASTM D445 15.4

40

20

9.21

13.7

Customer Id: GFL836 Sample No.: GFL0095141 Lab Number: 05979276 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 0.05

13.8

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.	
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.	
Resample			?	We recommend an early resample to monitor this condition.	
Check Fuel/inject System	tor		?	We advise that you check the fuel injection system.	
Check Glycol Acc	cess		?	We advise that you check for the source of the coolant leak.	

#### HISTORICAL DIAGNOSIS



13 Sep 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.



view report

10 Aug 2023 Diag: Wes Davis





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11 Jul 2023 Diag: Wes Davis

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## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **426081-402330** Component

Diesel Engine

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

		62019 Sep20	19 Mar2020 Dec2020 M	ay2022 Dec2022 Apr2023 Jun20	23 Sep2023	1.4.1
SAMPLE INFOR	MATION		limit/base		history1	history2
Sample Number		Client Info		GFL0095141	GFL0090680	GFL008716
Sample Date		Client Info		11 Oct 2023	13 Sep 2023	10 Aug 2023
Machine Age	hrs	Client Info		17443	17267	17065
Oil Age	hrs	Client Info		0	600	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	8	12	6
Chromium	ppm	ASTM D5185m	>20	1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	2	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	<1
Lead	ppm	ASTM D5185m	>40	<1	2	1
Copper	ppm	ASTM D5185m	>330	4	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	5	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	54	64	65
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	711	1047	938
Calcium	ppm	ASTM D5185m	1070	775	1158	1140
Phosphorus	ppm	ASTM D5185m	1150	777	1083	1016
Zinc	ppm	ASTM D5185m	1270	897	1391	1247
Sulfur	ppm	ASTM D5185m	2060	2273	3177	3158
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	3
Sodium	ppm	ASTM D5185m		🔺 168	7	0
Potassium	ppm	ASTM D5185m	>20	<1	1	1
Fuel	%	ASTM D3524	>3.0	<b>e</b> 24.0	<1.0	<1.0
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.6	0.4
0001 /8			>20	8.0	8.0	7.3
Nitration	Abs/cm	*ASTM D7624	~ = 0			
Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>30	20.0	20.2	19.8
Nitration	Abs/.1mm	*ASTM D7415				
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.2	19.8 history2 15.4

### Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. 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.

#### Wear

All component wear rates are normal.

#### Contamination

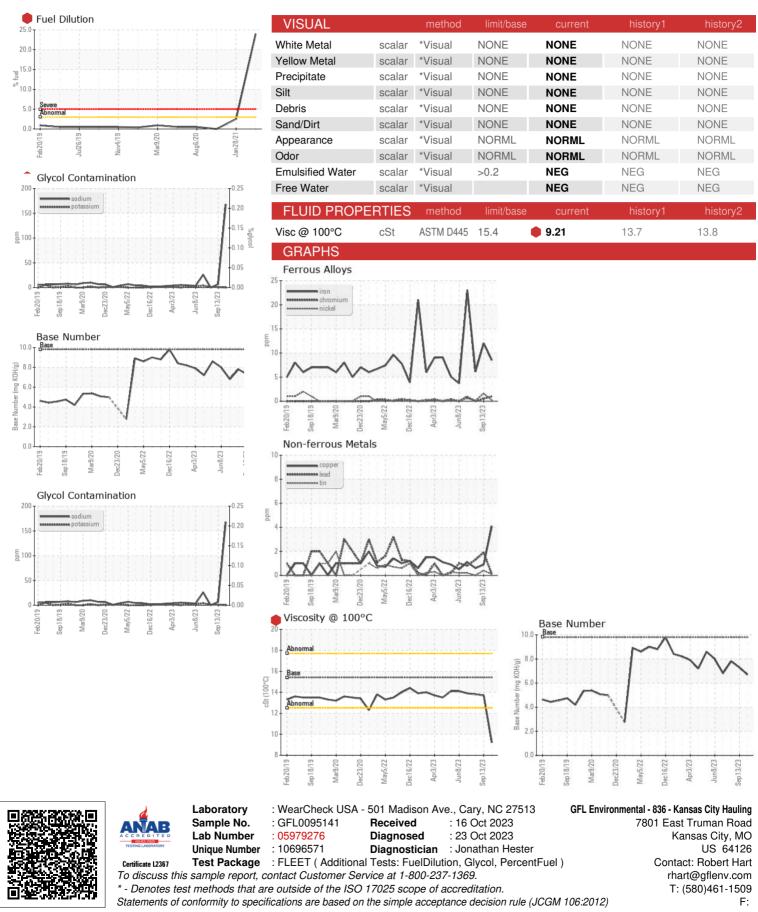
Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil.

#### 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.



# **OIL ANALYSIS REPORT**



Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836