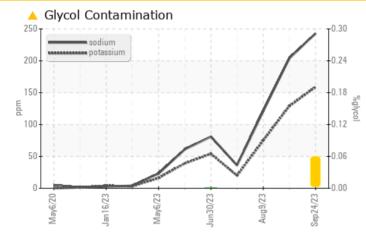


Sample Rating Trend GLYCOL

# Machine Id 921057-205334

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. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Sodium	ppm	ASTM D5185m		<u> </u>	<b>2</b> 04	<b>1</b> 21		
Potassium	ppm	ASTM D5185m	>20	🔺 159	129	<b>1</b> 75		
Glycol	%	*ASTM D2982		<b>A</b> 0.06	NEG	NEG		

Customer Id: GFL821 Sample No.: GFL0090167 Lab Number: 05970086 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

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



31 Aug 2023 Diag: Jonathan Hester

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.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.



view report

#### 09 Aug 2023 Diag: Jonathan Hester



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.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.



NORMAL



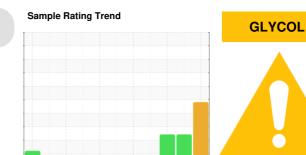
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







### **OIL ANALYSIS REPORT**



Machine Id 921057-205334

#### Component Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. The oil 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

Test for glycol is positive. There is a moderate concentration of glycol present in the oil.

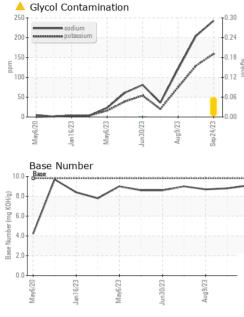
#### Fluid Condition

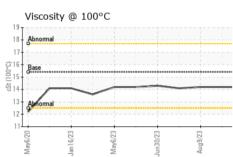
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

			11 11 11			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090167	GFL0090231	GFL0076807
Sample Date		Client Info		24 Sep 2023	31 Aug 2023	09 Aug 2023
Machine Age	hrs	Client Info		7023	9311	6735
Oil Age	hrs	Client Info		600	150	150
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	8	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	21	0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	0
Lead	ppm	ASTM D5185m	>20 >40	0	0	0
	ppm	ASTM D5185m	>330	<1	1	<1
Copper Tin		ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	>15	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm			U	-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	73	71	67
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	954	1036	910
Calcium	ppm	ASTM D5185m	1070	1023	1142	1098
Phosphorus	ppm	ASTM D5185m	1150	1026	1046	1050
Zinc	ppm	ASTM D5185m	1270	1259	1318	1240
Sulfur	ppm	ASTM D5185m	2060	3009	3788	3043
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	2
Sodium	ppm	ASTM D5185m		<u> </u>	<b>2</b> 04	<b>1</b> 21
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 159	<b>1</b> 29	<b>A</b> 75
Glycol	%	*ASTM D2982		<b>A</b> 0.06	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624		8.8	8.0	6.8
Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	20.0	19.1	18.2
FLUID DEGRAD	ATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.4	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	8.8	8.7



## **OIL ANALYSIS REPORT**

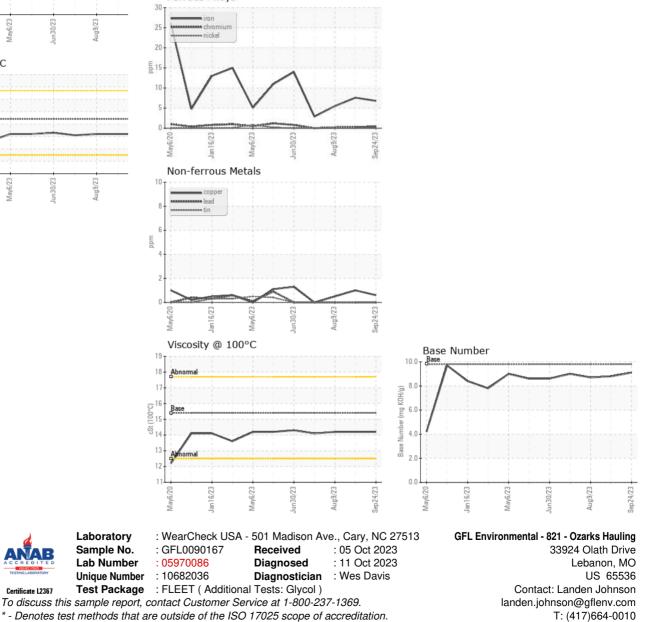




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	14.2
GRAPHS						

Ferrous Alloys

VIOLIA





Submitted By: GFL821, GFL824 and GFL829 - Landen Johnson

F: