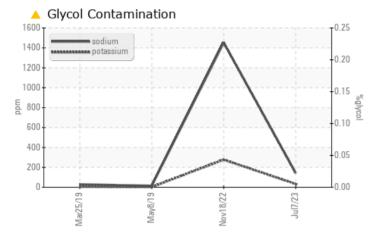
## **PROBLEM SUMMARY**

Sample Rating Trend GLYCOL

# Machine Id 924022-260240

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				ATTENTION	ABNORMAL	NORMAL			
Sodium	ppm	ASTM D5185m		<u> </u>	<b>1</b> 452	15			

Customer Id: GFL820 Sample No.: GFL0067731 Lab Number: 05897187 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**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

#### 18 Nov 2022 Diag: Jonathan Hester

GLYCOL



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



#### 08 May 2019 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### 25 Mar 2019 Diag: Wes Davis



We advise that you check for faulty combustion and a possible overheat condition. We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. A small degree of oil oxidation was indicated. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable.





## **OIL ANALYSIS REPORT**

Sample Rating Trend

## GLYCOL

# Machine Id 924022-260240

### Component Diesel Engine

Fluid

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

## DIAGNOSIS

## A Recommendation

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

## Wear

All component wear rates are normal.

#### Contamination

Sodium and/or potassium levels remain elevated. Test for glycol is negative.

## Fluid Condition

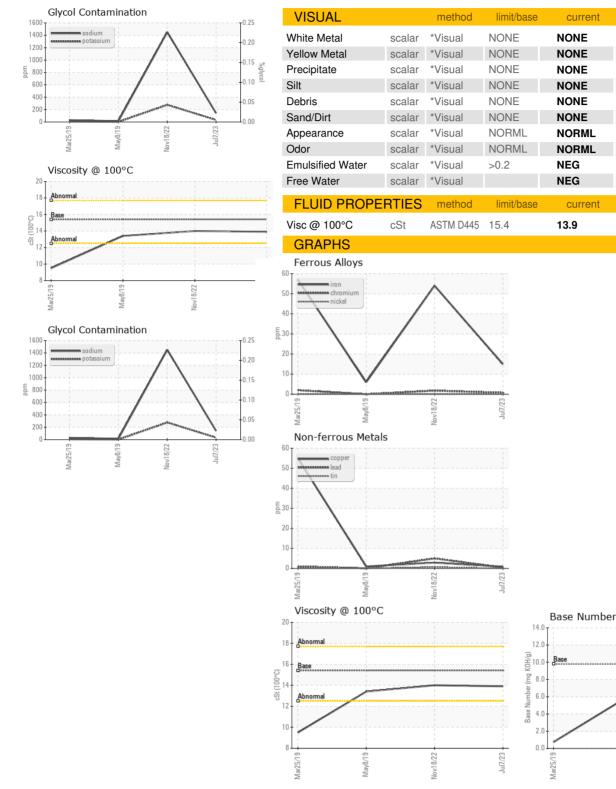
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

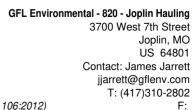
āAL)		Mar201	9 May2019	Nov2022	ul2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info Client Info		GFL0067731 07 Jul 2023	GFL0054063 18 Nov 2022	GFLI-X37881 08 May 2019
Machine Age	hrs	Client Info		0	11489	9903
Oil Age	hrs	Client Info		0	0	450
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.5
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	54	6
Chromium	ppm	ASTM D5185m	>20	<1	2	0
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	4	14	3
Lead	ppm	ASTM D5185m	>40	<1	5	0
Copper	ppm	ASTM D5185m	>330	<1	3	1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	4	200
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	66	198	113
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	916	808	677
Calcium	ppm	ASTM D5185m	1070	1035	1203	1465
Phosphorus	ppm	ASTM D5185m	1150	976	945	699
Zinc	ppm	ASTM D5185m	1270	1195	1232	812
Sulfur	ppm	ASTM D5185m	2060	3584	3577	
Lithium	ppm	ASTM D5185m				0
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	21	6
Sodium	ppm	ASTM D5185m		<u> </u>	<b>1</b> 452	15
Potassium	ppm	ASTM D5185m	>20	33	<b>A</b> 277	2
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.4	13.8	8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	23.4	
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	17.4	13
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.7	12.2	5.58
	99		-	<b>0</b>		

Contact/Location: James Jarrett - GFL820



# **OIL ANALYSIS REPORT**





Vov18/22

Mav8/19

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

14.0

history2

history2

13.4



Diagnostician Test Package : FLEET (Additional Tests: Glycol) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: GFL0067731

: 05897187

: 10552997

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: 13 Jul 2023

: 17 Jul 2023

: Jonathan Hester

Received

Diagnosed

Laboratory

Sample No.

Lab Number

Unique Number

lul7/23