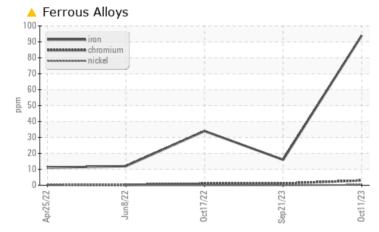
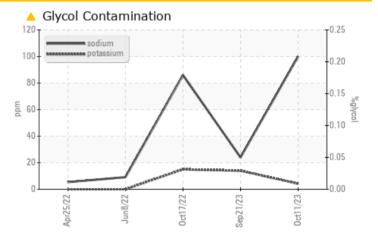


### COMPONENT CONDITION SUMMARY





### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	ATTENTION		
Iron	ppm	ASTM D5185m	>90	<u> </u>	16	34		
Sodium	ppm	ASTM D5185m		<u> </u>	24	<b>A</b> 86		

Customer Id: GFL405 Sample No.: GFL0097671 Lab Number: 06010528 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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.		

### HISTORICAL DIAGNOSIS



### 21 Sep 2023 Diag: Don Baldridge

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.



### 17 Oct 2022 Diag: Jonathan Hester





Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



### 08 Jun 2022 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

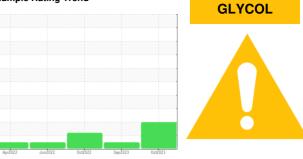




# **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base



history1

current

history2



Component Diesel Engine Fluid

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

SAMPLE INFORMATION method

## A Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Machine Id 4653M

### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. 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 acceptable for the time in service.

SAMELE INFORM		methou	iiiiiii/base	current	TISTOLAL	This tory 2
Sample Number		Client Info		GFL0097671	GFL0084947	GFL0052075
Sample Date		Client Info		11 Oct 2023	21 Sep 2023	17 Oct 2022
Machine Age	hrs	Client Info		16414	16263	13576
Oil Age	hrs	Client Info		151	2687	13576
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	S .	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<b>4</b> 94	16	34
Chromium	ppm	ASTM D5185m	>20	3	1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	9	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	6	4	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	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	5	3	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	62	53
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	1010	965	986	849
Calcium	ppm	ASTM D5185m	1070	1106	1132	978
Phosphorus	ppm	ASTM D5185m	1150	1007	1088	849
Zinc	ppm	ASTM D5185m	1270	1334	1311	1157
Sulfur	ppm	ASTM D5185m	2060	2365	3795	2854
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon						
o "	ppm	ASTM D5185m	>25	10	7	5
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25	10 ▲ 100	7 24	5 ▲ 86
		ASTM D5185m ASTM D5185m	>25 >20			
Potassium	ppm	ASTM D5185m		<u> </u>	24	<u> </u>
Potassium	ppm ppm	ASTM D5185m ASTM D5185m		▲ 100 4	24 14	▲ 86 15
Potassium Glycol INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m *ASTM D2982	>20	▲ 100 4 NEG	24 14 NEG	▲ 86 15 NEG
Potassium Glycol INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m *ASTM D2982 method	>20 limit/base	▲ 100 4 NEG current	24 14 NEG history1	<ul> <li>86</li> <li>15</li> <li>NEG</li> <li>history2</li> </ul>
Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm %	ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	>20 limit/base >6 >20	<ul> <li>100</li> <li>4</li> <li>NEG</li> <li>current</li> <li>1.4</li> </ul>	24 14 NEG history1 0.4	<ul> <li>86</li> <li>15</li> <li>NEG</li> <li>history2</li> <li>0.1</li> </ul>
Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D2982 <b>method</b> *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >6 >20	100 4 NEG current 1.4 18.3	24 14 NEG history1 0.4 7.0	▲ 86 15 NEG history2 0.1 14.0
Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D2982 <b>method</b> *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >6 >20 >30	<ul> <li>100</li> <li>4</li> <li>NEG</li> <li>current</li> <li>1.4</li> <li>18.3</li> <li>33.3</li> </ul>	24 14 NEG history1 0.4 7.0 18.5	▲ 86 15 NEG history2 0.1 14.0 13.4



# **OIL ANALYSIS REPORT**

