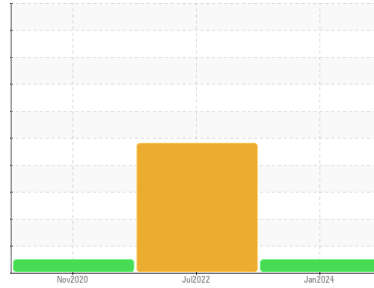




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**501059**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0102631</b>	GFL0056208	GFL0007607
Sample Date	Client Info		<b>28 Jan 2024</b>	13 Jul 2022	19 Nov 2020
Machine Age	hrs	Client Info	<b>6323</b>	1129899	2454
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	▲ 0.01	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>32</b>	24	25
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	3
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	2
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	8	4
Lead	ppm	ASTM D5185(m)	>30	<b>7</b>	<1	6
Copper	ppm	ASTM D5185(m)	>30	<b>1</b>	10	3
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	2
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	34	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	24	60
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	950	<b>971</b>	336	990
Calcium	ppm	ASTM D5185(m)	1050	<b>1095</b>	1891	1144
Phosphorus	ppm	ASTM D5185(m)	995	<b>989</b>	923	1015
Zinc	ppm	ASTM D5185(m)	1180	<b>1195</b>	1185	1307
Sulfur	ppm	ASTM D5185(m)	2600	<b>2461</b>	2654	2505
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

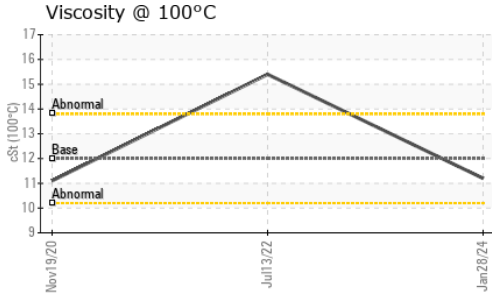
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	<b>7</b>	5	9
Sodium	ppm	ASTM D5185(m)		<b>9</b>	▲ 62	7
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	▲ 23	2

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	8.8	10.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	23.5	20.9



# OIL ANALYSIS REPORT

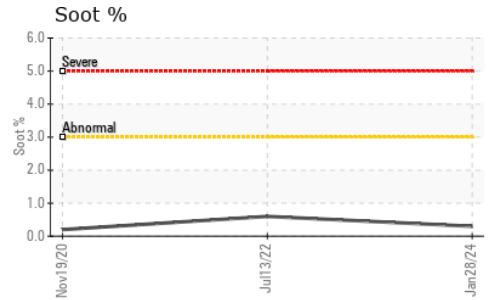
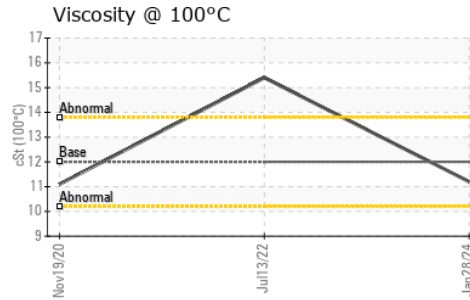
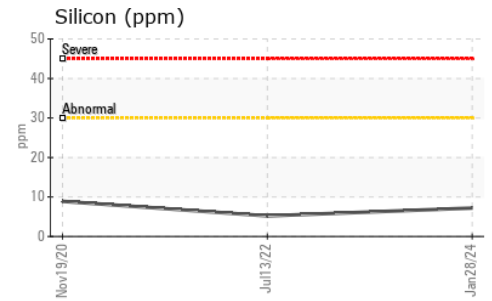
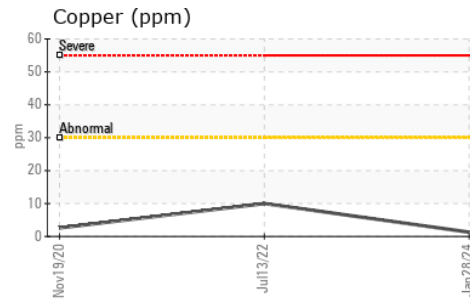
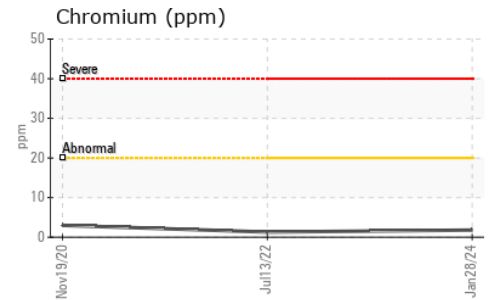
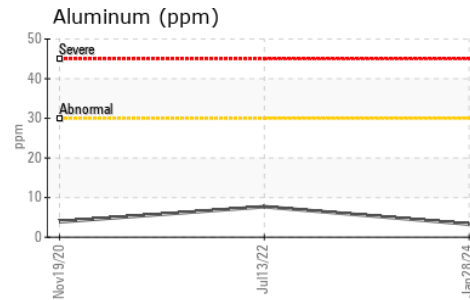
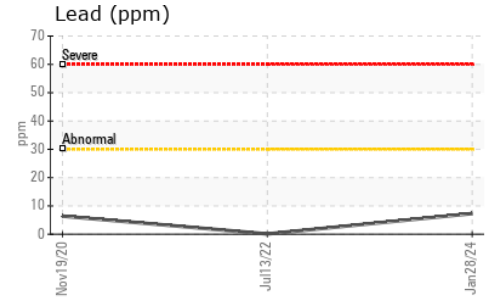
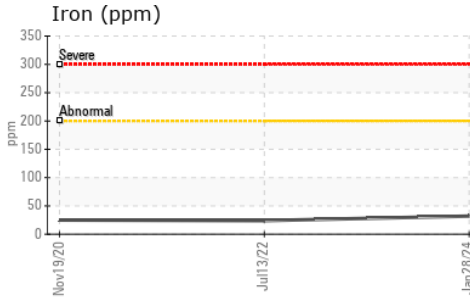


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.7</b>	17.9	16.8

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	15.4	11.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0102631 **Received** : 06 Feb 2024  
**Lab Number** : 02613719 **Diagnosed** : 06 Feb 2024  
**Unique Number** : 5722814 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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