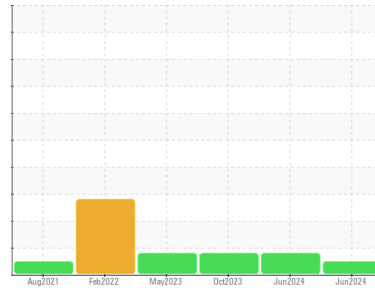




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**9115**

Component

**Diesel Engine**

Fluid

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

## DIAGNOSIS

### 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

Fuel content negligible. 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>GFL0111783</b>	GFL0111788	GFL0081957
Sample Date	Client Info		<b>19 Jun 2024</b>	13 Jun 2024	22 Oct 2023
Machine Age	hrs	Client Info	<b>3960</b>	3926	2820
Oil Age	hrs	Client Info	<b>30</b>	525	435
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	<b>6</b>	46	45
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	3	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>1</b>	5	12
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	1	1
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	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>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>4</b>	4	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>56</b>	58	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>923</b>	923	922
Calcium	ppm	ASTM D5185(m)	1050	<b>1006</b>	1041	1010
Phosphorus	ppm	ASTM D5185(m)	995	<b>957</b>	950	962
Zinc	ppm	ASTM D5185(m)	1180	<b>1123</b>	1143	1147
Sulfur	ppm	ASTM D5185(m)	2600	<b>2496</b>	2335	2298
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

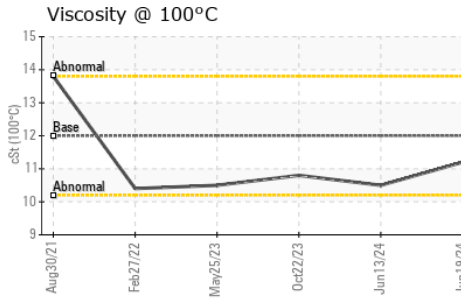
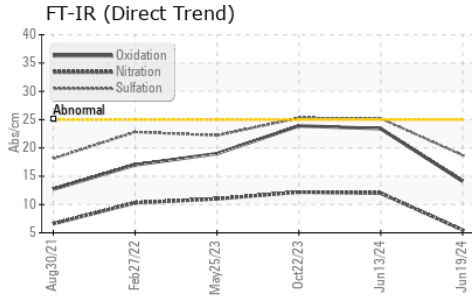
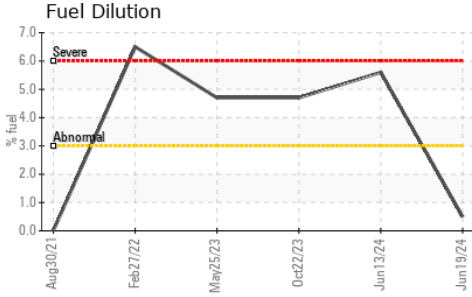
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	14	6
Sodium	ppm	ASTM D5185(m)		<b>2</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	6	21
Fuel	%	ASTM D7593*	>3.0	<b>0.5</b>	▲ 5.6	▲ 4.7

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.1</b>	1.3	1.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.5</b>	12.0	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.7</b>	25.2	25.3



# OIL ANALYSIS REPORT

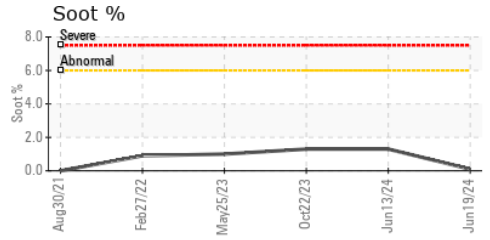
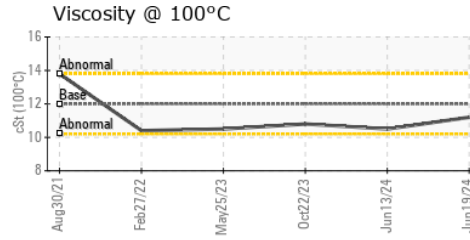
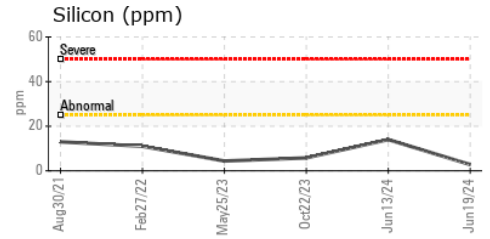
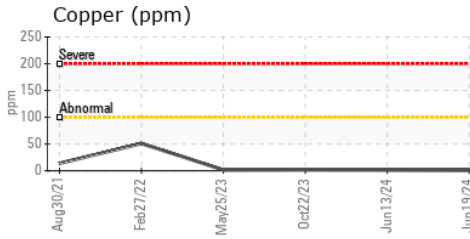
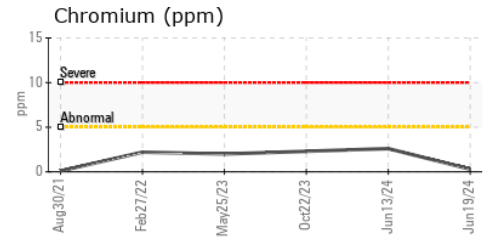
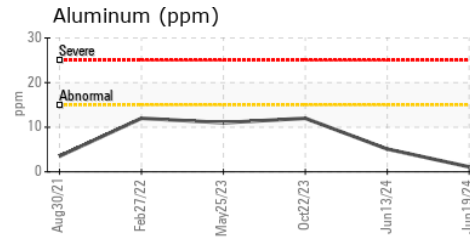
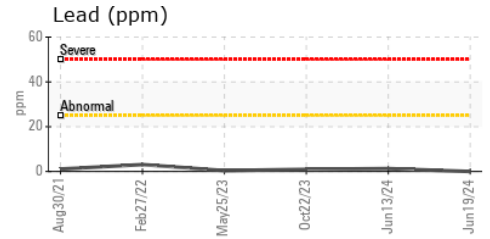
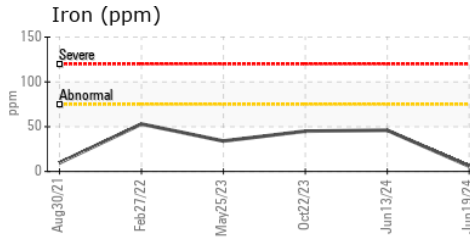


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.1</b>	23.4	23.9

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>	10.5	10.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0111783  
**Lab Number** : **02643989**  
**Unique Number** : 5801528  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel, Visual )

**GFL Environmental - 557 - Edson**  
 6615 - 4th Ave,  
 Edson, AB  
 CA T7E 1M5  
 Contact: GFL Tech  
 wcgfdemo@gmail.com

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.