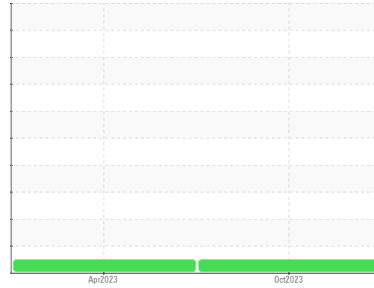




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**4506**

Component  
**Diesel Engine**

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

## 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>GFL0081953</b>	GFL0039065	---
Sample Date	Client Info		<b>02 Oct 2023</b>	01 Apr 2023	---
Machine Age	hrs	Client Info	<b>19949</b>	19457	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method		<b>NEG</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>23</b>	18	---
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	---
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	6	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>64</b>	65	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	950	<b>997</b>	994	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1072</b>	1058	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>1025</b>	1095	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1211</b>	1227	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2591</b>	2652	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	8	---
Sodium	ppm	ASTM D5185(m)		<b>11</b>	34	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	22	---

## INFRA-RED

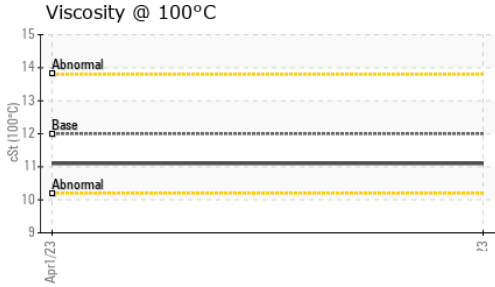
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.8</b>	9.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	20.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.4</b>	16.1	---



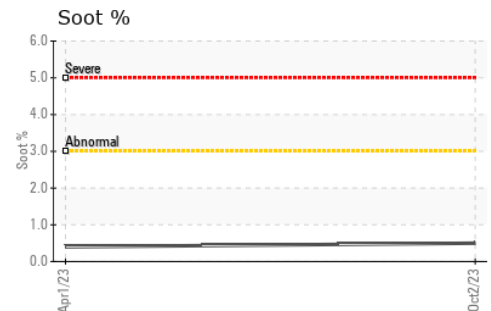
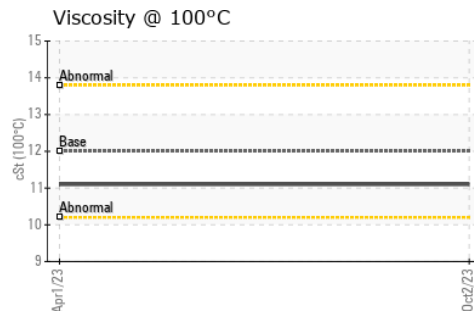
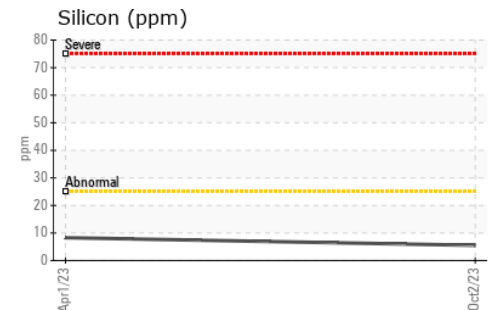
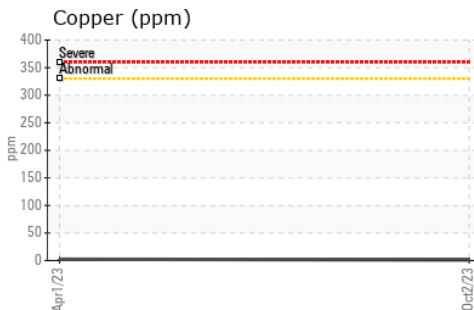
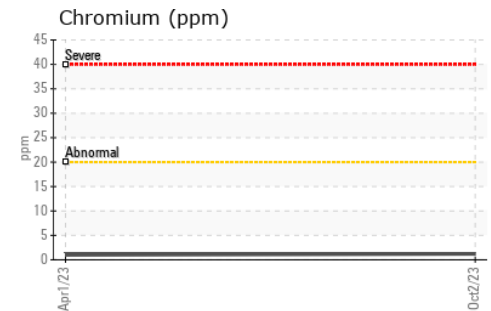
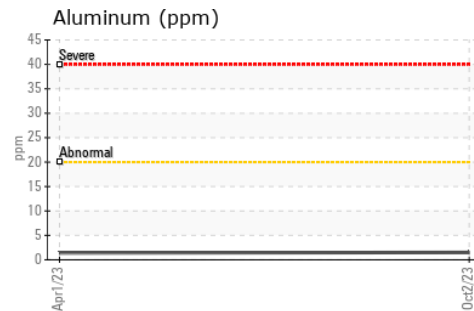
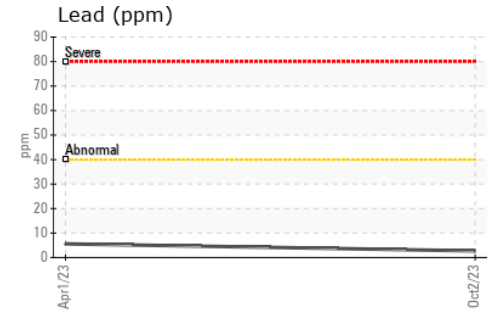
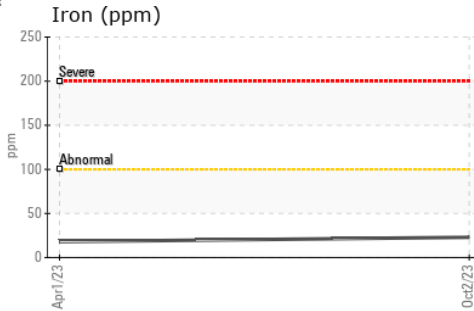
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0081953 **Received** : 10 Oct 2023  
**Lab Number** : 02587973 **Diagnosed** : 10 Oct 2023  
**Unique Number** : 5657039 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 557 - Edson**  
 6615 - 4th Ave,  
 Edson, AB  
 CA T7E 1M5  
 Contact: Charles Castro  
 CCastro@gflenv.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.

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F: