

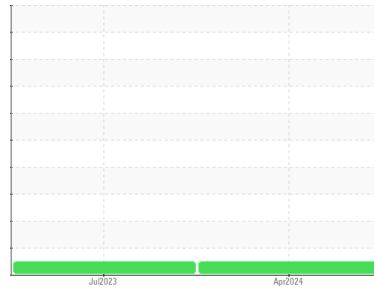


# OIL ANALYSIS REPORT



Machine Id  
**OR1975**  
 Component  
**Front Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (11 LTR)**

## Sample Rating Trend



**NORMAL**



## 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>GFL0113413</b>	GFL0087388	---
Sample Date	Client Info		<b>29 Apr 2024</b>	19 Jul 2023	---
Machine Age	hrs	Client Info	<b>8207</b>	6950	---
Oil Age	hrs	Client Info	<b>500</b>	600	---
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	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>31</b>	29	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m) >25	<b>10</b>	5	---
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	3	---
Copper	ppm	ASTM D5185(m) >330	<b>4</b>	87	---
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) 0	<b>6</b>	22	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m) 60	<b>56</b>	16	---
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m) 1010	<b>915</b>	577	---
Calcium	ppm	ASTM D5185(m) 1070	<b>1334</b>	1468	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1063</b>	981	---
Zinc	ppm	ASTM D5185(m) 1270	<b>1244</b>	1093	---
Sulfur	ppm	ASTM D5185(m) 2060	<b>2660</b>	3035	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

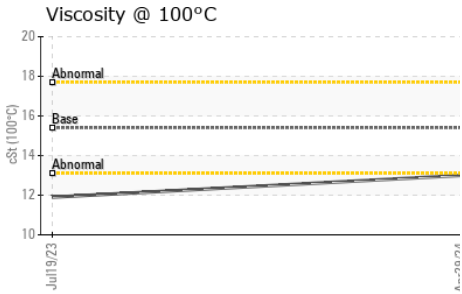
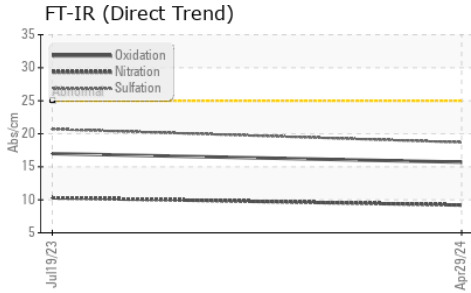
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>5</b>	7	---
Sodium	ppm	ASTM D5185(m)	<b>5</b>	43	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	9	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	0	---
Nitration	Abs/cm	ASTM D7624* >20	<b>9.2</b>	10.3	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>18.7</b>	20.7	---



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## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	17.0	---

## VISUAL

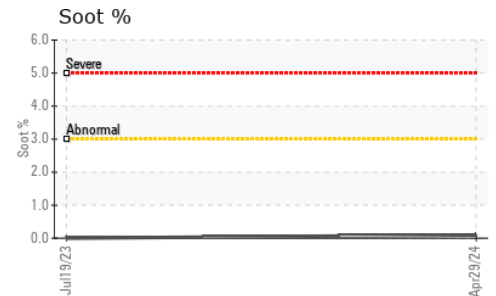
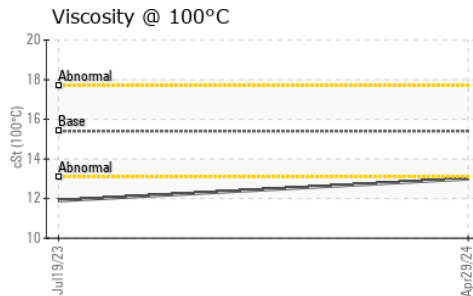
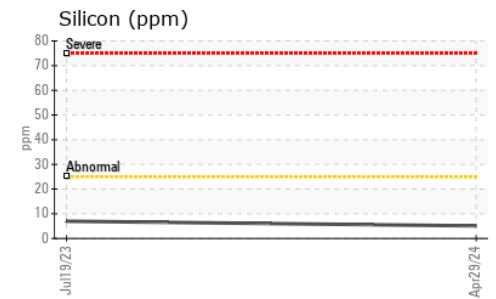
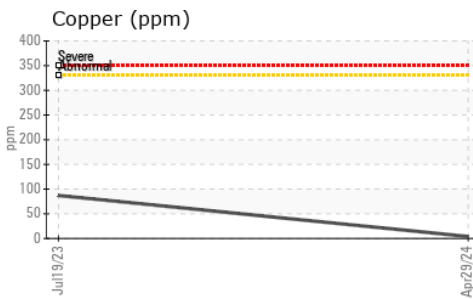
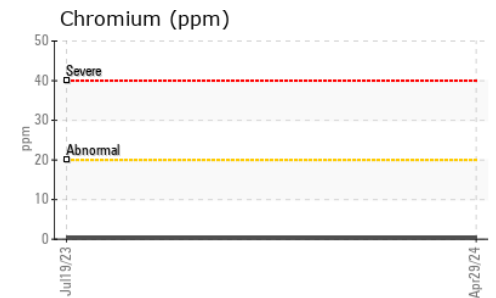
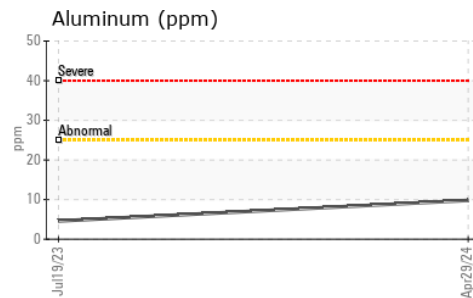
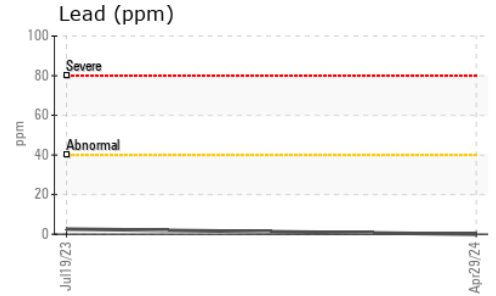
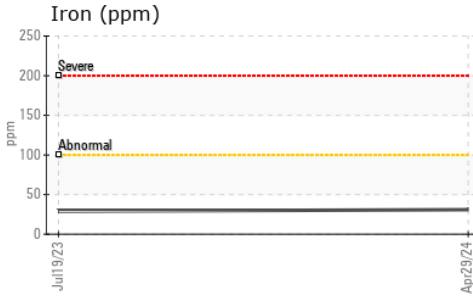
method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	---

Free Water	scalar Visual*	NEG	NEG	---
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## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	15.4	13.0	11.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113413  
**Lab Number** : 02634247  
**Unique Number** : 5775400  
**Test Package** : MOB 1

**GFL Environmental - 720 - Lafleche - Landfill**  
 17125 Lafleche Road,  
 Moose Creek, ON  
 CA K0C 1W0  
 Contact: Charles Bergeron  
 cbergeron@gflenv.com  
 T: (613)538-4853  
 F:

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.