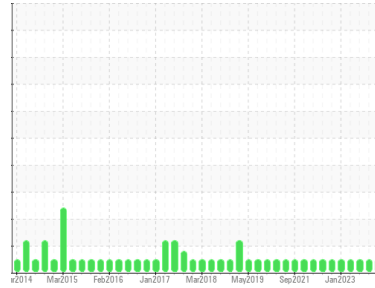




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**4431**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (40 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>GFL0097525</b>	GFL0061109	GFL0074303
Sample Date	Client Info	<b>28 Dec 2023</b>	03 Oct 2023	04 Jul 2023
Machine Age	hrs	<b>28240</b>	27600	0
Oil Age	hrs	<b>640</b>	407	0
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
Sample Status		<b>NORMAL</b>	NORMAL	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>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >120	<b>6</b>	5	8
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >2	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >20	<b>2</b>	<1	2
Lead	ppm ASTM D5185(m) >40	<b>&lt;1</b>	0	0
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >15	<b>&lt;1</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>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>4</b>	4	3
Barium	ppm ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm ASTM D5185(m) 60	<b>59</b>	57	58
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185(m) 1010	<b>938</b>	919	943
Calcium	ppm ASTM D5185(m) 1070	<b>1047</b>	1030	1007
Phosphorus	ppm ASTM D5185(m) 1150	<b>1003</b>	979	1030
Zinc	ppm ASTM D5185(m) 1270	<b>1143</b>	1161	1158
Sulfur	ppm ASTM D5185(m) 2060	<b>2664</b>	2511	2511
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

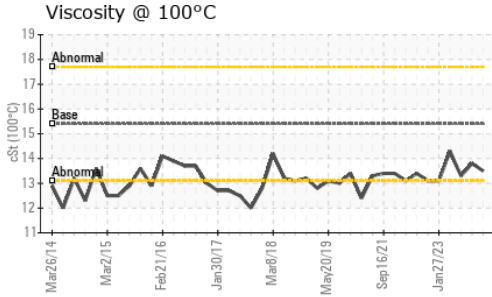
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>2</b>	2	2
Sodium	ppm ASTM D5185(m)	<b>2</b>	3	2
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	0	<1

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >4	<b>0.4</b>	0.5	0.7
Nitration	Abs/cm ASTM D7624* >20	<b>8.6</b>	7.7	9.2
Sulfation	Abs/.1mm ASTM D7415* >30	<b>18.8</b>	18.6	19.5



# OIL ANALYSIS REPORT

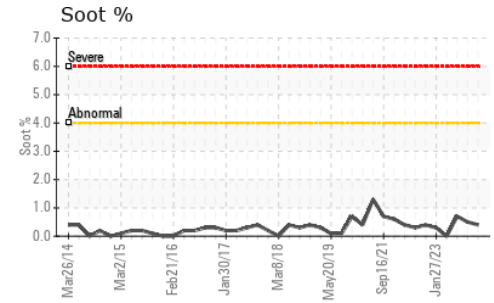
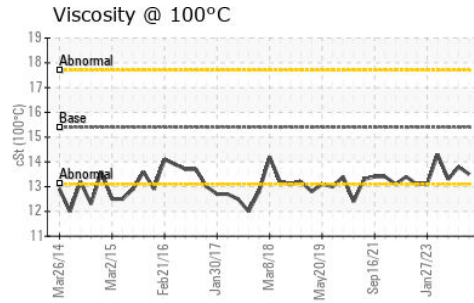
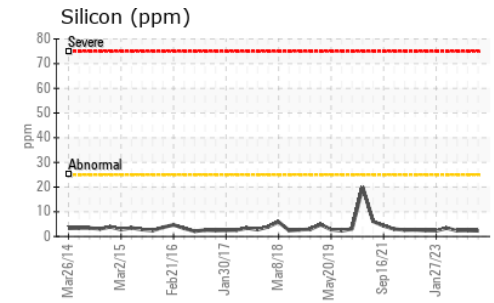
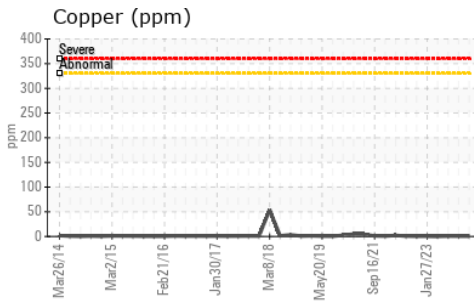
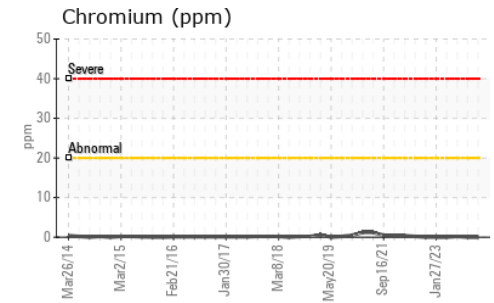
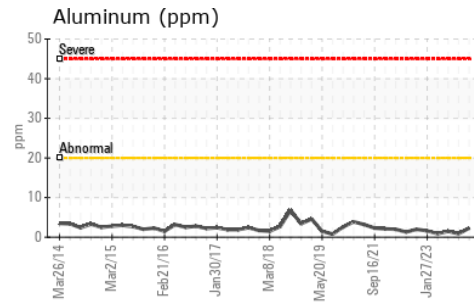
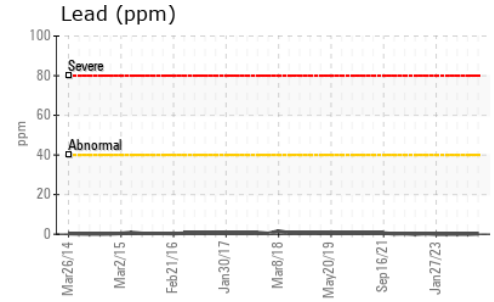
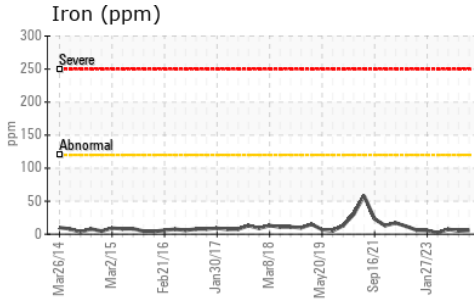


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.8</b>	14.1	14.9

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)	15.4	<b>13.5</b>	13.8	13.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097525 **Received** : 02 Jan 2024  
**Lab Number** : **02605832** **Diagnosed** : 02 Jan 2024  
**Unique Number** : 5698917 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.