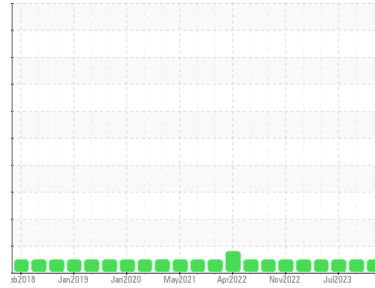




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**701045**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (20 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>GFL0097442</b>	GFL0085674	GFL0077303
Sample Date	Client Info		<b>22 Jan 2024</b>	18 Oct 2023	19 Jul 2023
Machine Age	hrs	Client Info	<b>500</b>	500	500
Oil Age	hrs	Client Info	<b>500</b>	500	500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>12</b>	14	12
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >330	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
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>2</b>	2	2
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 60	<b>57</b>	59	56
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 1010	<b>915</b>	948	928
Calcium	ppm	ASTM D5185(m) 1070	<b>1005</b>	1030	1004
Phosphorus	ppm	ASTM D5185(m) 1150	<b>948</b>	976	996
Zinc	ppm	ASTM D5185(m) 1270	<b>1121</b>	1176	1145
Sulfur	ppm	ASTM D5185(m) 2060	<b>2430</b>	2340	2330
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

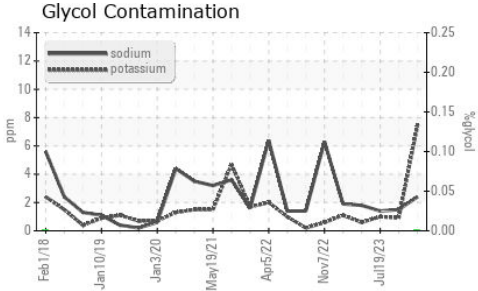
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Silicon	ppm	ASTM D5185(m) >25	<b>4</b>	3	4
Sodium	ppm	ASTM D5185(m)	<b>2</b>	2	1
Potassium	ppm	ASTM D5185(m) >20	<b>7</b>	<1	1
Glycol	%	ASTM D7922*	<b>0.0</b>	NEG	NEG

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.4</b>	0.4	0.4
Nitration	Abs/cm	ASTM D7624* >20	<b>10.0</b>	10.1	10.0
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>21.0</b>	21.1	21.2



# OIL ANALYSIS REPORT

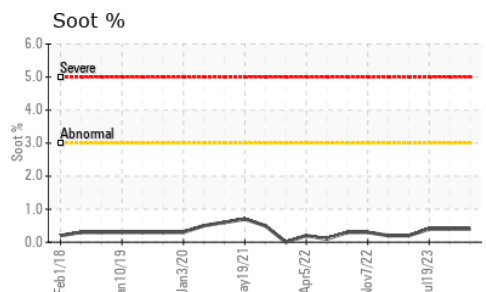
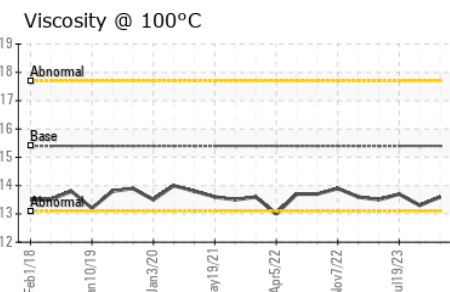
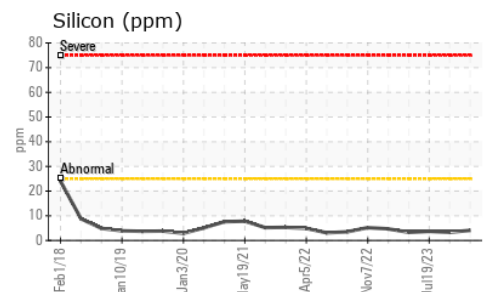
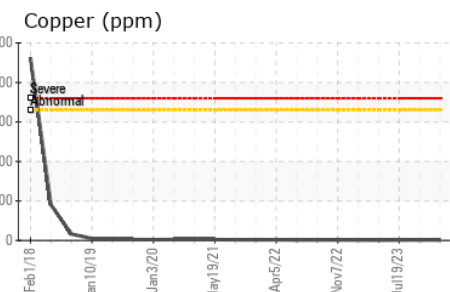
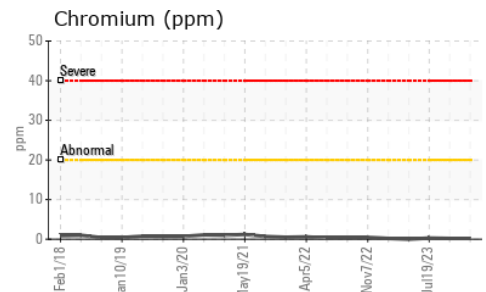
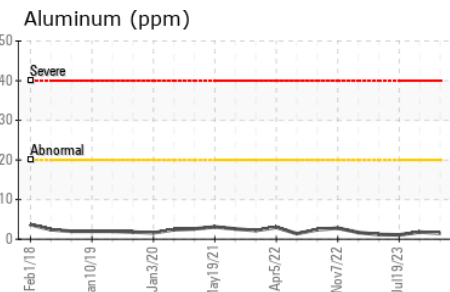
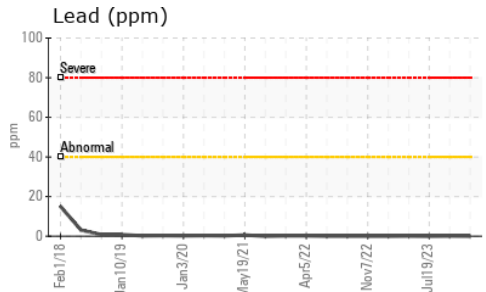
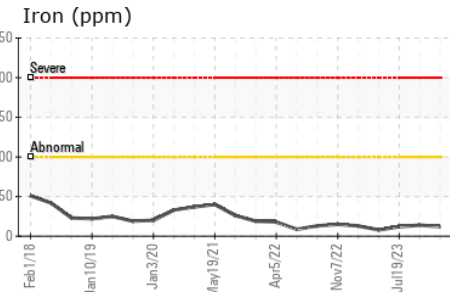
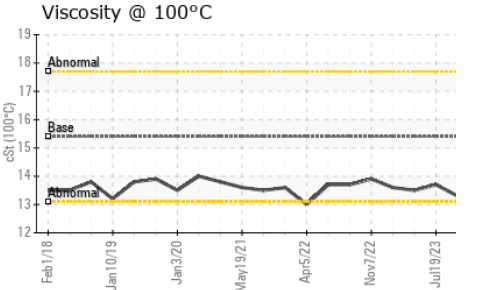


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.2</b>	17.8	18.0

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>13.6</b>	13.3	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 221 - Windsor**  
**Sample No.** : GFL0097442 **Received** : 25 Jan 2024 905 Tecumseh Road W  
**Lab Number** : **02611084** **Diagnosed** : 25 Jan 2024 Windsor, ON  
**Unique Number** : 5720179 **Diagnostician** : Wes Davis CA N8W 4J5  
**Test Package** : MOB 1 ( Additional Tests: Glycol ) Contact: Rhys Marotte  
rmarotte@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.