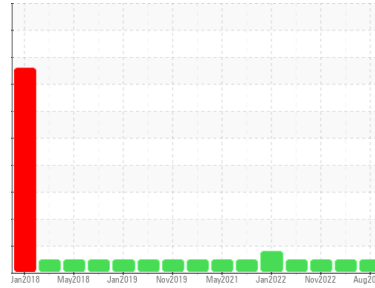




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**701037**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

The water content is 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>GFL0077300</b>	GFL0077320	GFL0059897
Sample Date	Client Info	<b>03 Aug 2023</b>	24 May 2023	21 Nov 2022
Machine Age	hrs	<b>444</b>	444	0
Oil Age	hrs	<b>444</b>	0	499
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
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>8</b>	10	12
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >4	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>1</b>	2	2
Lead	ppm ASTM D5185(m) >40	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	1	1
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<1
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>3</b>	<1	2
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 60	<b>57</b>	58	56
Manganese	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	<b>935</b>	933	897
Calcium	ppm ASTM D5185(m) 1070	<b>1027</b>	1071	1052
Phosphorus	ppm ASTM D5185(m) 1150	<b>1040</b>	1044	1001
Zinc	ppm ASTM D5185(m) 1270	<b>1185</b>	1173	1126
Sulfur	ppm ASTM D5185(m) 2060	<b>2469</b>	2449	2420
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>4</b>	5	4
Sodium	ppm ASTM D5185(m)	<b>1</b>	1	8
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

## INFRA-RED

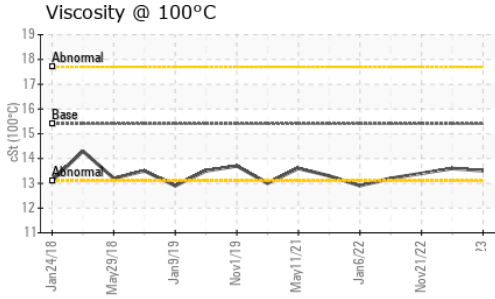
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm ASTM D7624* >20	<b>9.3</b>	10.0	10.4
Sulfation	Abs/.1mm ASTM D7415* >30	<b>20.2</b>	20.8	21.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>16.3</b>	18.6	18.8



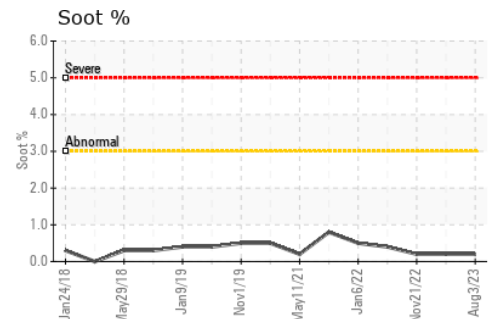
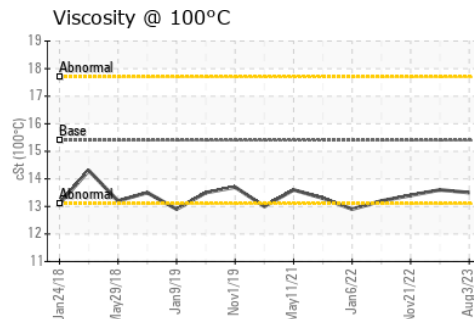
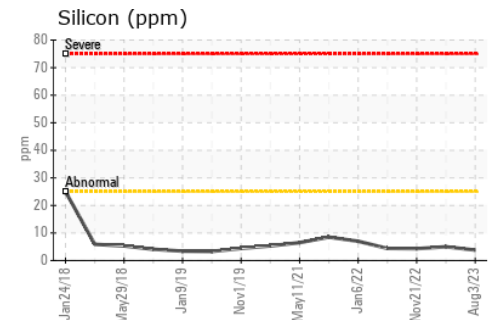
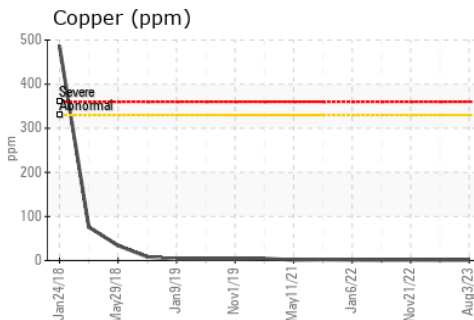
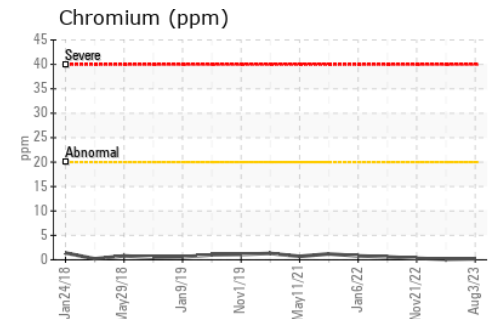
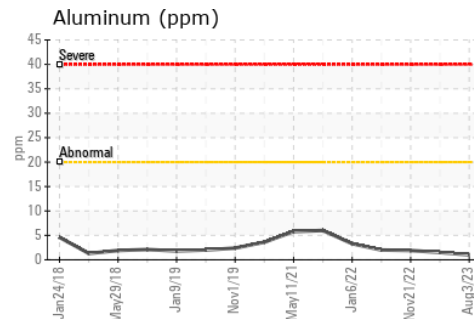
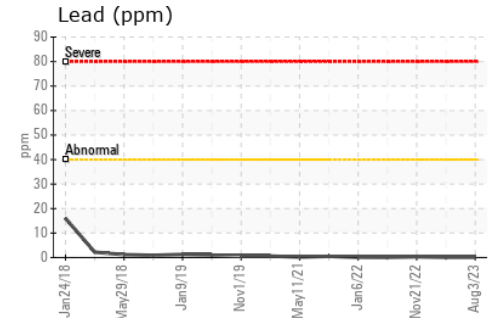
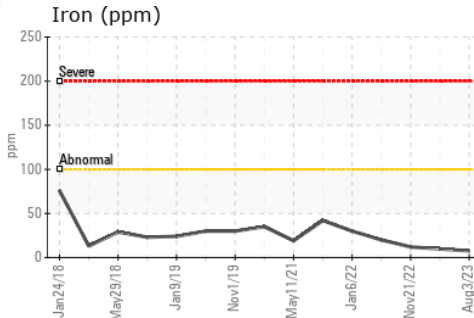
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 221 - Windsor**  
**Sample No.** : GFL0077300 **Received** : 08 Aug 2023 **905 Tecumseh Road W**  
**Lab Number** : 02574412 **Diagnosed** : 08 Aug 2023 **Windsor, ON**  
**Unique Number** : 5619463 **Diagnostician** : Wes Davis **CA N8W 4J5**  
**Test Package** : MOB 1 **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.