

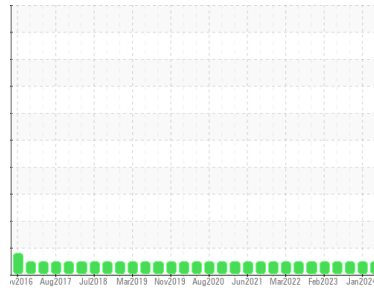


# OIL ANALYSIS REPORT



Machine Id  
**4703**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (36 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>GFL0126260</b>	GFL0097586	GFL0097549
Sample Date	Client Info		<b>02 Jul 2024</b>	23 Jan 2024	30 Oct 2023
Machine Age	hrs	Client Info	<b>17856</b>	16839	16249
Oil Age	hrs	Client Info	<b>1017</b>	590	456
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	>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>5</b>	8	10
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >15	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	<1	2
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>6</b>	4	6
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 60	<b>58</b>	61	71
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 1010	<b>930</b>	993	1139
Calcium	ppm	ASTM D5185(m) 1070	<b>1023</b>	1112	1264
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1003</b>	1044	1177
Zinc	ppm	ASTM D5185(m) 1270	<b>1167</b>	1215	1407
Sulfur	ppm	ASTM D5185(m) 2060	<b>2498</b>	2635	2898
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

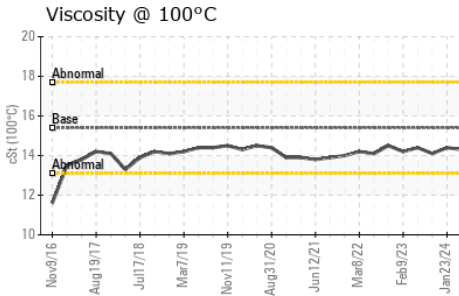
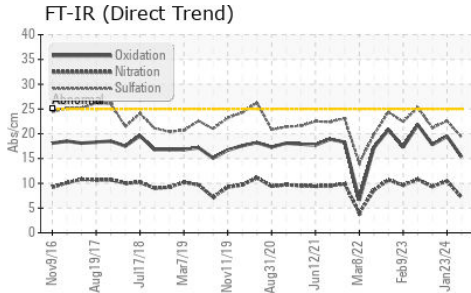
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	3	4
Sodium	ppm	ASTM D5185(m)	<b>2</b>	4	5
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	3	2

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	<b>0.1</b>	0.4	0.4
Nitration	Abs/cm	ASTM D7624* >20	<b>7.1</b>	10.5	9.3
Sulfation	Abs./1mm	ASTM D7415* >30	<b>19.3</b>	22.6	21.2



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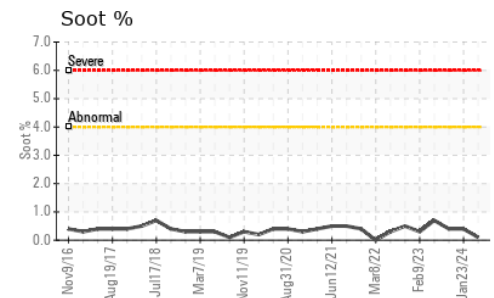
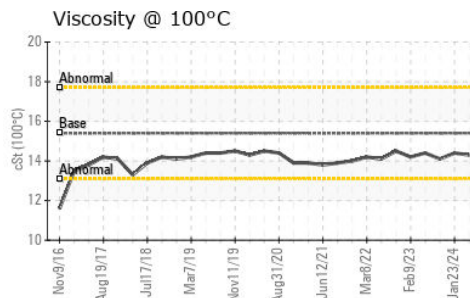
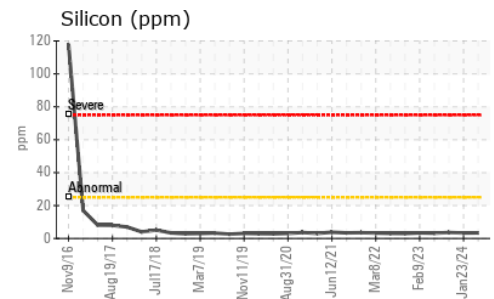
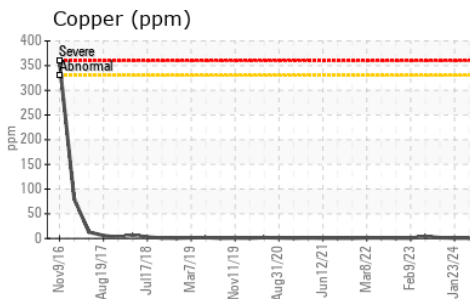
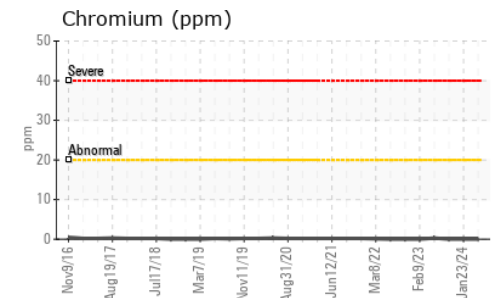
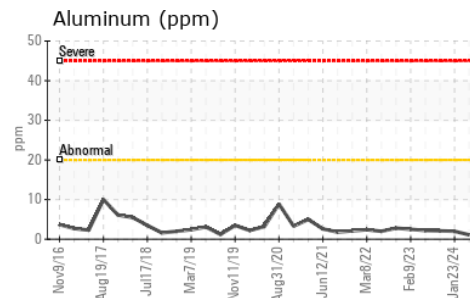
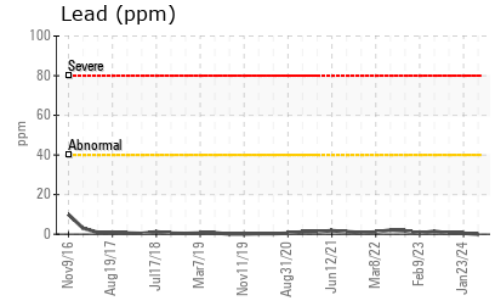
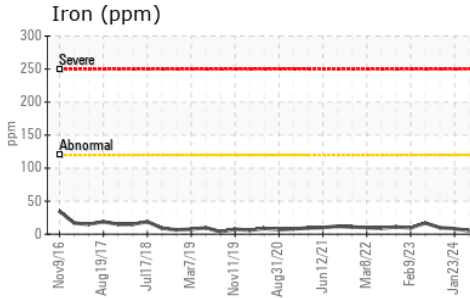


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.3</b>	19.5	17.8

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>14.3</b>	14.4	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0126260      **Received** : 05 Jul 2024  
**Lab Number** : **02645840**      **Tested** : 05 Jul 2024  
**Unique Number** : 5803379      **Diagnosed** : 05 Jul 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 216**  
 15 Bermondsey Road  
 Toronto, ON  
 CA M4B 1Y9  
 Contact: Tom Hatzioannidis  
 thatzioannidis@gflenv.com  
 T: (416)678-9340  
 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.