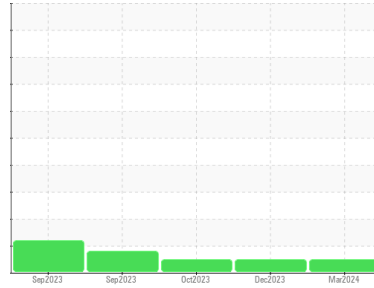




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2220**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- LTR)**

## 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>GFL0102664</b>	GFL0101726	GFL0097596
Sample Date	Client Info		<b>05 Mar 2024</b>	06 Dec 2023	30 Oct 2023
Machine Age	hrs	Client Info	<b>0</b>	25981	43020
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >110	<b>13</b>	19	14
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>3</b>	3	2
Lead	ppm	ASTM D5185(m) >45	<b>2</b>	3	2
Copper	ppm	ASTM D5185(m) >85	<b>7</b>	9	6
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<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) 2	<b>5</b>	5	6
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>60</b>	59	63
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 950	<b>972</b>	954	1005
Calcium	ppm	ASTM D5185(m) 1050	<b>1085</b>	1110	1176
Phosphorus	ppm	ASTM D5185(m) 995	<b>1027</b>	991	1042
Zinc	ppm	ASTM D5185(m) 1180	<b>1183</b>	1174	1255
Sulfur	ppm	ASTM D5185(m) 2600	<b>2630</b>	2505	2583
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

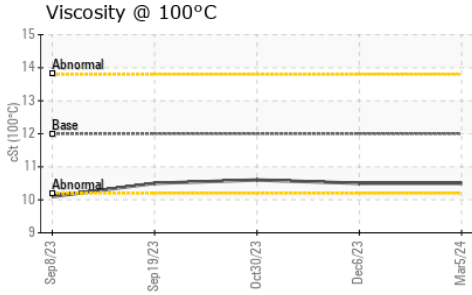
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	<b>7</b>	4	4
Sodium	ppm	ASTM D5185(m)	<b>1</b>	2	5
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	2	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>8.7</b>	10.3	8.7
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>20.6</b>	22.6	21.4



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.1	20.9	19.0

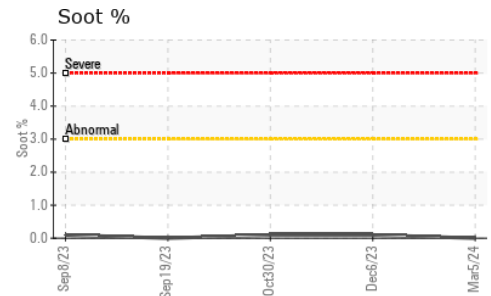
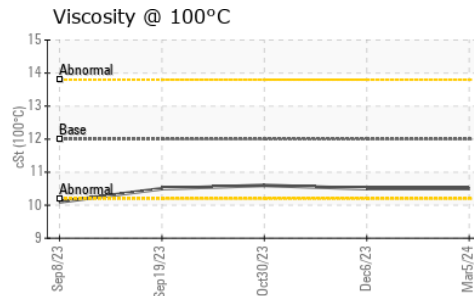
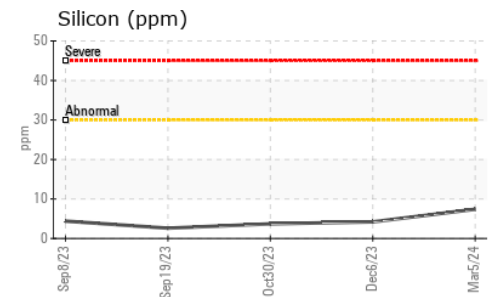
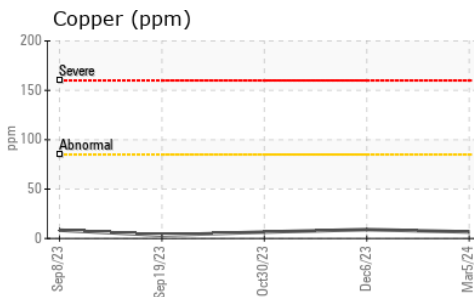
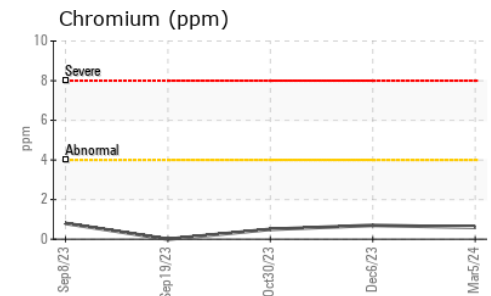
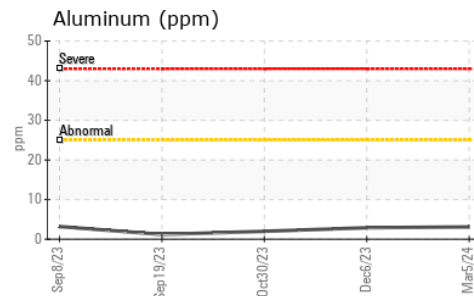
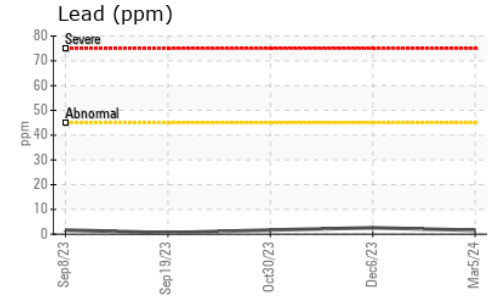
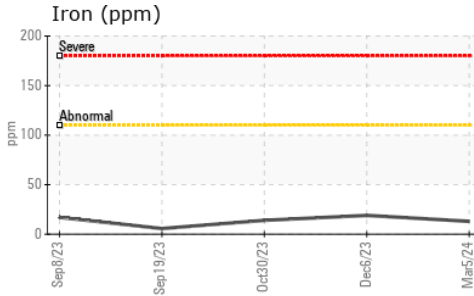
### VISUAL

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

### FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.5	10.5	10.6

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0102664 **Received** : 06 Mar 2024 **8409 - 15th Street NW**  
**Lab Number** : 02620091 **Tested** : 06 Mar 2024 **Edmonton, AB**  
**Unique Number** : 5737201 **Diagnosed** : 06 Mar 2024 - Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact:** Tim Greig **tgreg@gflenv.com**  
**T: (780)231-0521**  
**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.