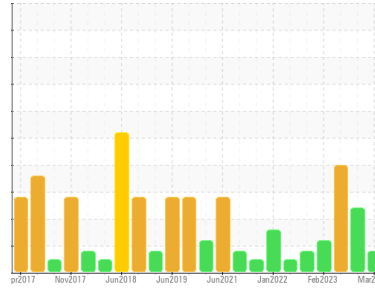




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**7824**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected 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>GFL0102621</b>	GFL0101741	GFL0093916
Sample Date	Client Info	<b>09 Mar 2024</b>	26 Dec 2023	18 Sep 2023
Machine Age	hrs	<b>23698</b>	0	22695
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	N/A	N/A
Sample Status		<b>MARGINAL</b>	SEVERE	SEVERE

## CONTAMINATION

method	limit/base	current	history1	history2	
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>11</b>	37	15
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	3	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	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	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)	2	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	47	43
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>948</b>	743	692
Calcium	ppm	ASTM D5185(m)	1050	<b>1063</b>	822	750
Phosphorus	ppm	ASTM D5185(m)	995	<b>959</b>	785	761
Zinc	ppm	ASTM D5185(m)	1180	<b>1156</b>	917	858
Sulfur	ppm	ASTM D5185(m)	2600	<b>2437</b>	2024	1875
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

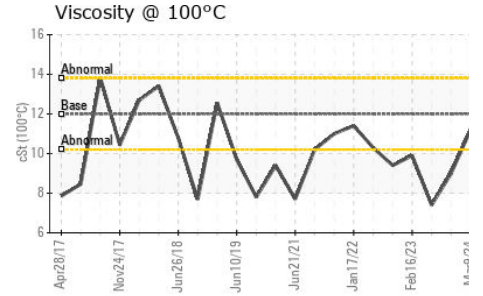
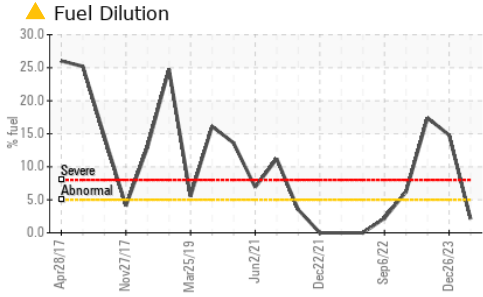
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>30	<b>6</b>	6	4
Sodium	ppm	ASTM D5185(m)		<b>4</b>	7	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	0
Fuel	%	ASTM D7593*	>5	<b>▲ 2.1</b>	▲ 14.8	▲ 17.4

## INFRA-RED

method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	1.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	13.0	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.2</b>	26.0	25.9



# OIL ANALYSIS REPORT

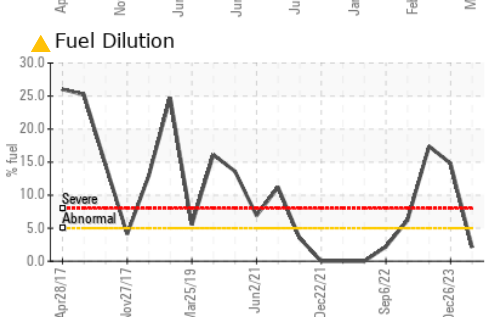
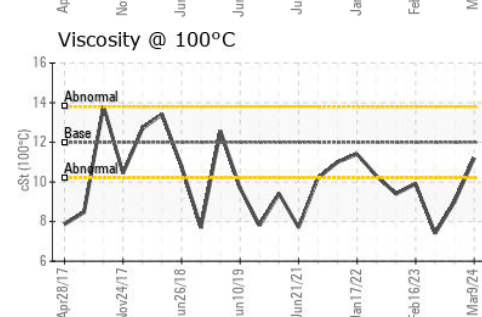
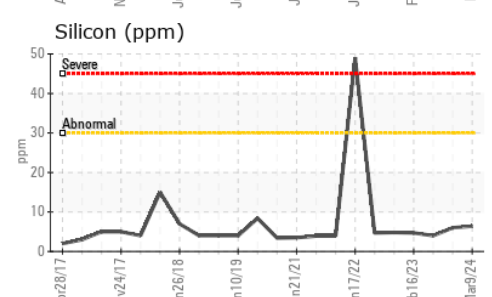
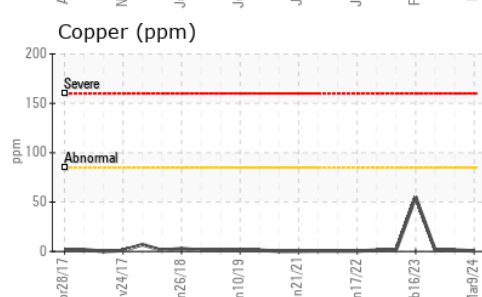
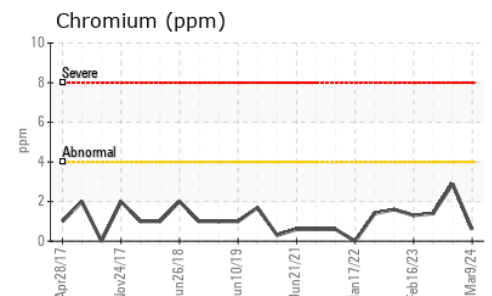
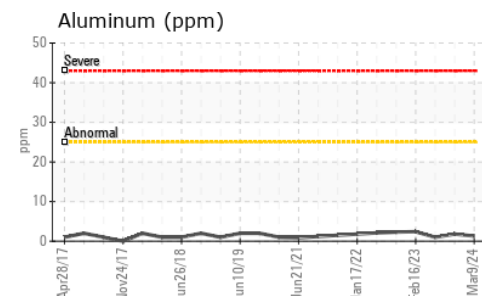
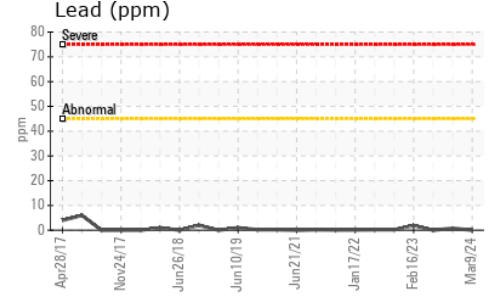
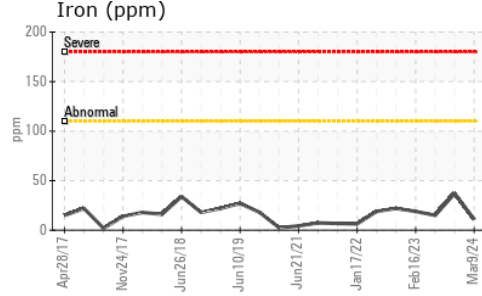


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.0</b>	28.3	▲ 30.7

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)	12.00	<b>11.2</b>	▲ 9	▲ 7.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0102621      **Received** : 25 Mar 2024  
**Lab Number** : 02624194      **Tested** : 26 Mar 2024  
**Unique Number** : 5749313      **Diagnosed** : 26 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
 tgreig@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.