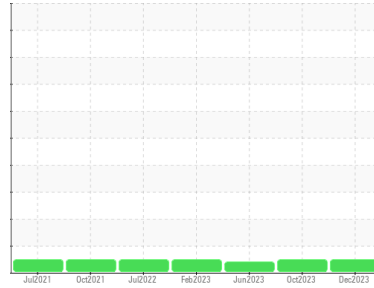




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**5592**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>GFL0101695</b>	GFL0097646	GFL0085914
Sample Date	Client Info		<b>19 Dec 2023</b>	11 Oct 2023	24 Jun 2023
Machine Age	kms	Client Info	<b>27049</b>	148000	1105007
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	1.4
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>8</b>	8
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	61
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0
Magnesium	ppm	ASTM D5185(m)	950	<b>949</b>	987
Calcium	ppm	ASTM D5185(m)	1050	<b>1041</b>	1081
Phosphorus	ppm	ASTM D5185(m)	995	<b>983</b>	981
Zinc	ppm	ASTM D5185(m)	1180	<b>1146</b>	1217
Sulfur	ppm	ASTM D5185(m)	2600	<b>2593</b>	2387
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

## CONTAMINANTS

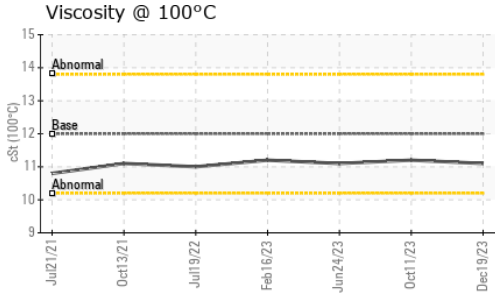
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	8
Sodium	ppm	ASTM D5185(m)		<b>9</b>	5
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	<b>0.1</b>	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	9.2
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.6</b>	21.5



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	15.3	18.0 / 17.2

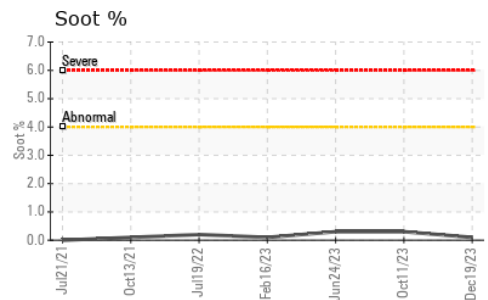
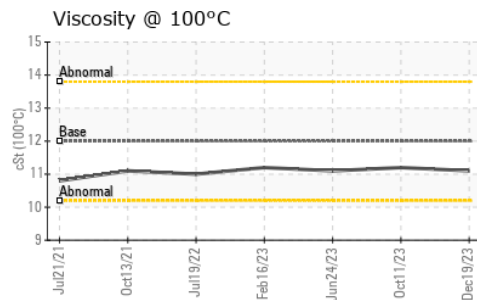
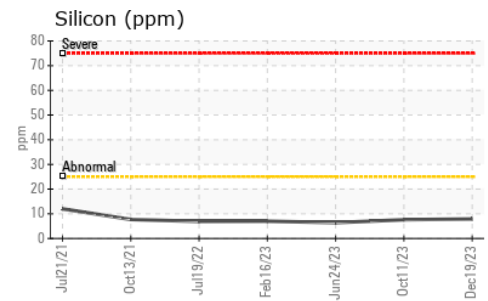
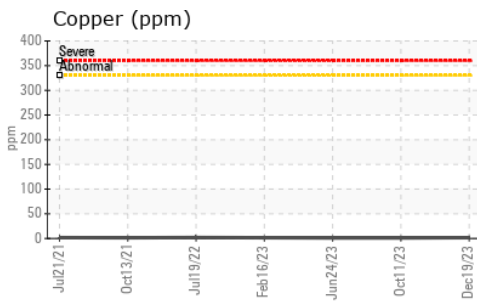
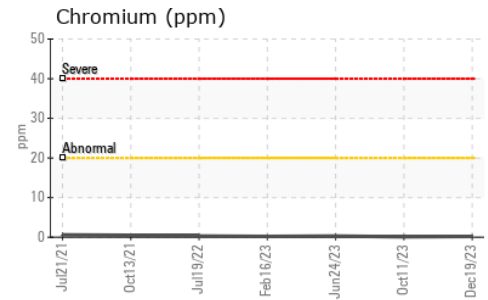
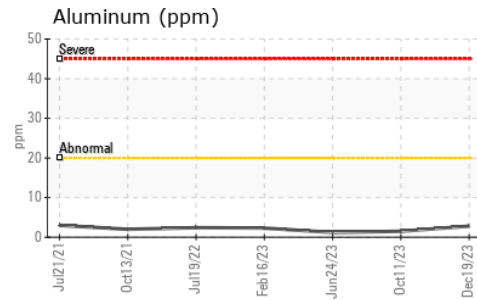
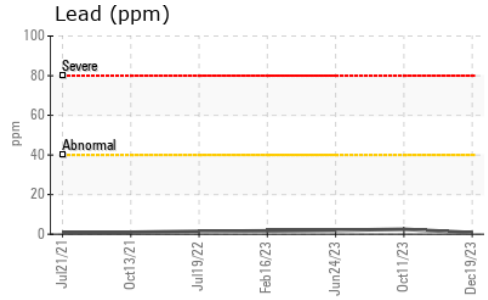
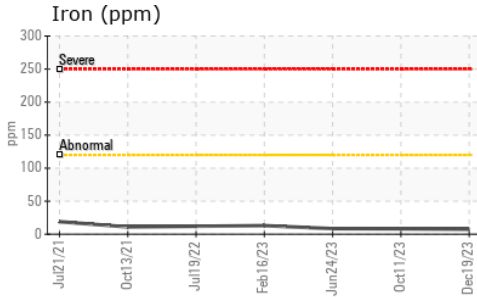
### VISUAL

	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	11.1	11.2 / ▲ 11.1

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0101695 **Received** : 02 Jan 2024  
**Lab Number** : 02605794 **Diagnosed** : 02 Jan 2024  
**Unique Number** : 5698879 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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.

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 F: