



Machine Id  
**413113**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112507</b>	GFL0102622	GFL0101699
Sample Date		Client Info		<b>22 May 2024</b>	06 Mar 2024	22 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	2532	2022
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>17</b>	19	15
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>3</b>	5	1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	5	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	1
Copper	ppm	ASTM D5185(m)	>330	<b>8</b>	19	60
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

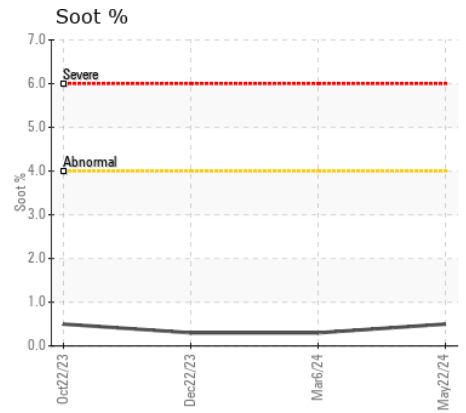
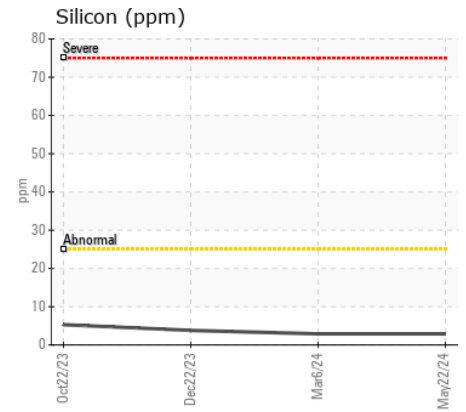
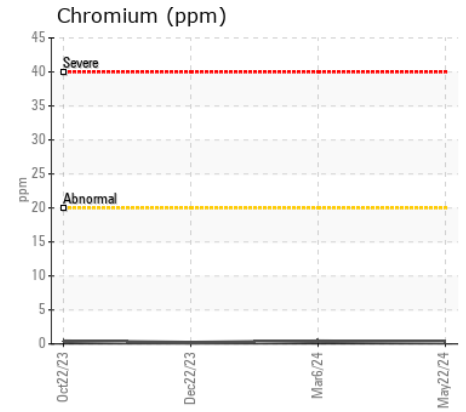
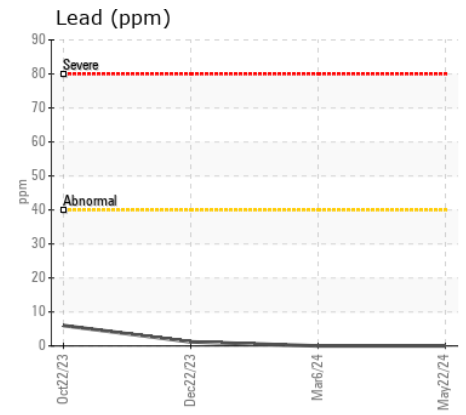
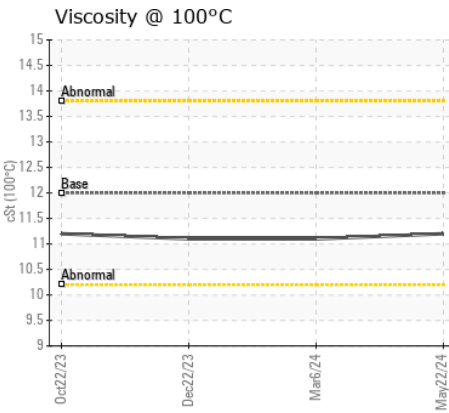
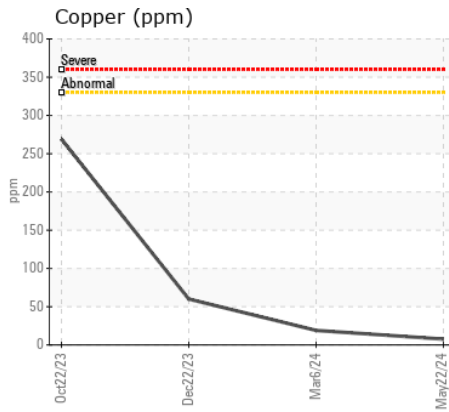
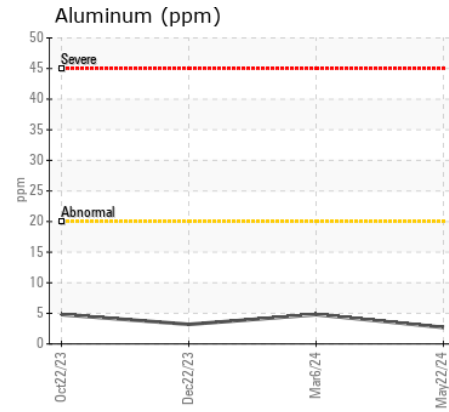
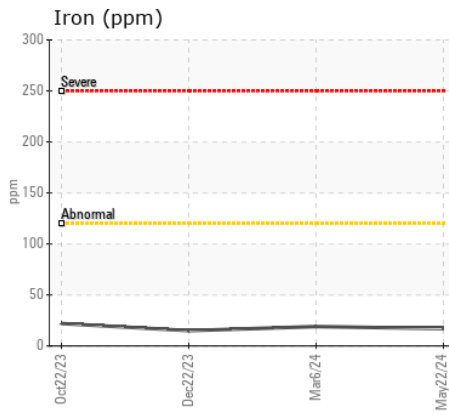
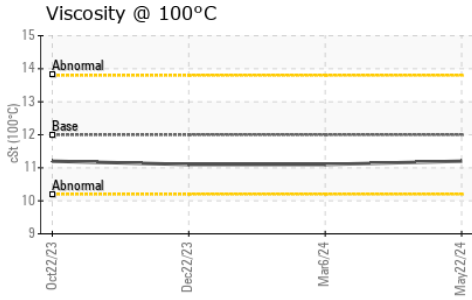
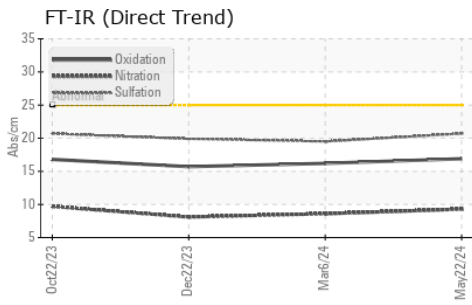
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	9	6
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
Soot %	%	ASTM D7844*	>4	<b>0.5</b>	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	8.6	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	19.5	19.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	1
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	0	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>60</b>	60	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	950	<b>961</b>	990	959
Calcium	ppm	ASTM D5185(m)	1050	<b>1057</b>	1067	1048
Phosphorus	ppm	ASTM D5185(m)	995	<b>976</b>	995	989
Zinc	ppm	ASTM D5185(m)	1180	<b>1180</b>	1205	1152
Sulfur	ppm	ASTM D5185(m)	2600	<b>2382</b>	2407	2374
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	16.2	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.1	11.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112507  
**Lab Number** : 02637105  
**Unique Number** : 5786267  
**Test Package** : MOB 1

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Jennifer Walker  
 jenniferwalker@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.

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