



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**501021**  
 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>GFL0108216</b>	GFL0108235	GFL0011121
Sample Date		Client Info		<b>16 Apr 2024</b>	02 Feb 2024	20 Oct 2020
Machine Age	hrs	Client Info		<b>22890</b>	22412	15358
Oil Age	hrs	Client Info		<b>478</b>	600	600
Filter Age	hrs	Client Info		<b>478</b>	600	600
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>20</b>	19	12
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	3	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

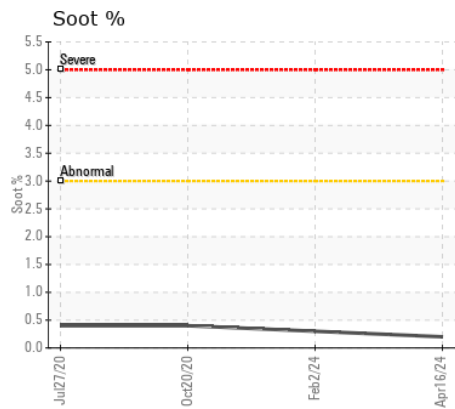
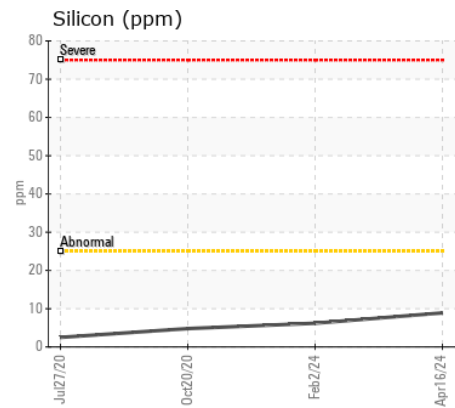
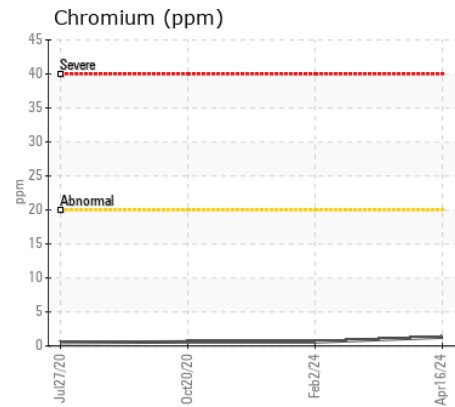
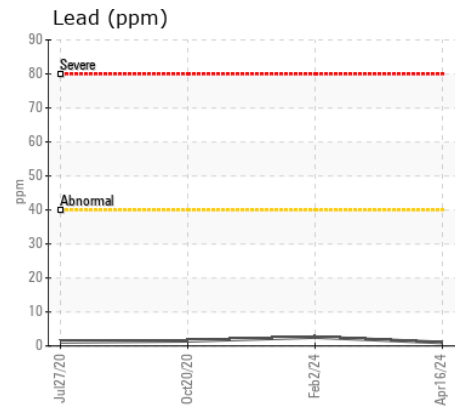
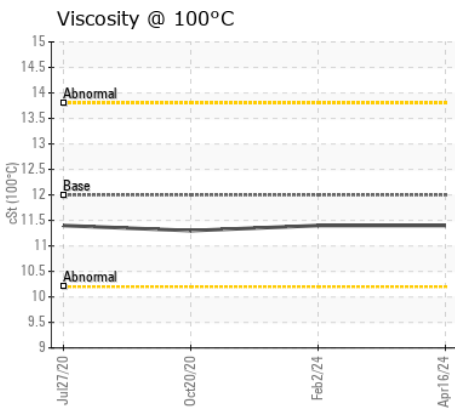
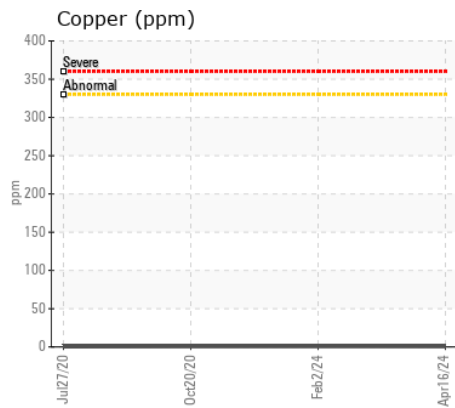
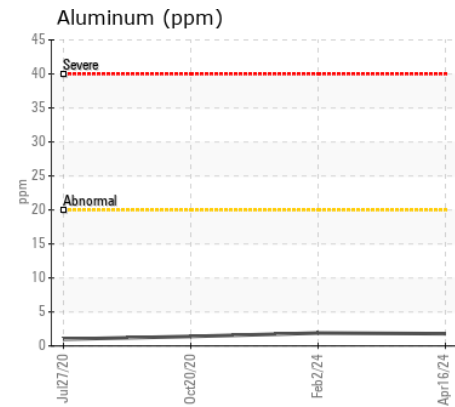
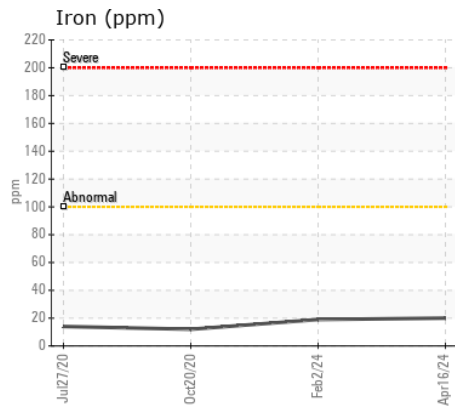
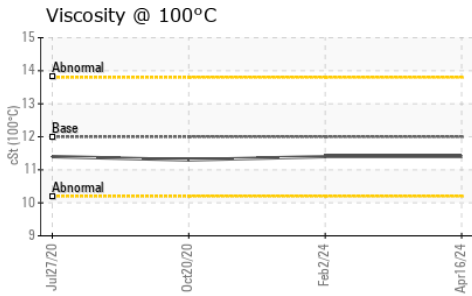
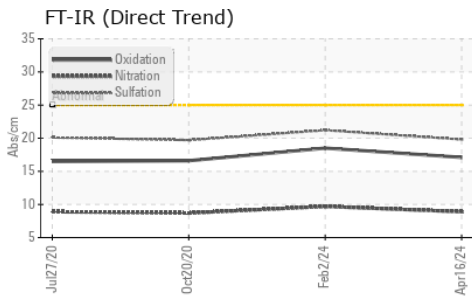
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Fuel		WC Method	>2.0	<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*	>3	<b>0.2</b>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	9.7	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	21.2	19.7
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>2</b>	2	3
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>62</b>	61	59
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>1028</b>	999	979
Calcium	ppm	ASTM D5185(m)	1050	<b>1111</b>	1106	1047
Phosphorus	ppm	ASTM D5185(m)	995	<b>1035</b>	1039	1012
Zinc	ppm	ASTM D5185(m)	1180	<b>1239</b>	1231	1269
Sulfur	ppm	ASTM D5185(m)	2600	<b>2530</b>	2657	2639
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.1</b>	18.5	16.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.4</b>	11.4	11.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0108216  
**Lab Number** : 02631099  
**Unique Number** : 5772252  
**Test Package** : MOB 1  
**Received** : 24 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Wes Davis

**GFL Environmental - 355 - Saskatoon**  
 100 Cory Road  
 Saskatoon, SK  
 CA S7K 3J7  
 Contact: Ryan Polichuk  
 rpolichuk@gflenv.com  
 T: (306)244-9500  
 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.