



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



Machine Id  
**OR962**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (19 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113336</b>	GFL0087373	GFL0092246
Sample Date		Client Info		<b>17 Apr 2024</b>	19 Jan 2024	15 Nov 2023
Machine Age	hrs	Client Info		<b>14420</b>	13733	13076
Oil Age	hrs	Client Info		<b>687</b>	700	1000
Filter Age	hrs	Client Info		<b>687</b>	700	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>16</b>	22	23
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<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)	>25	<b>15</b>	13	13
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

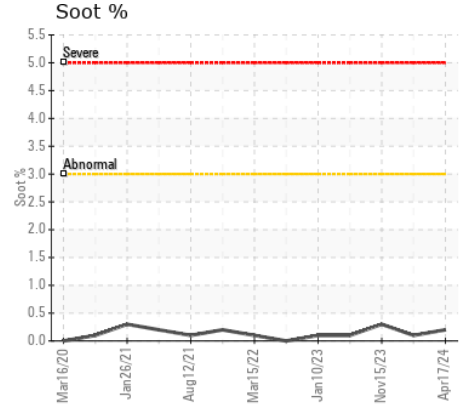
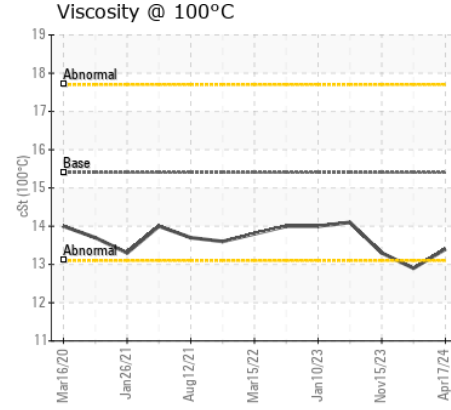
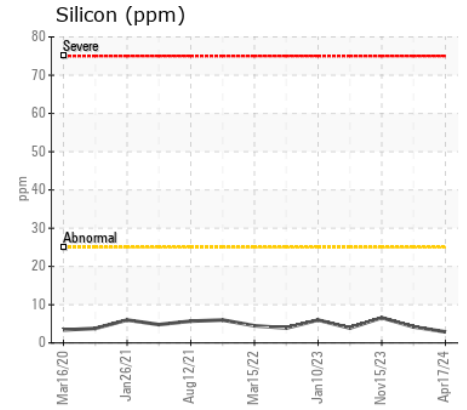
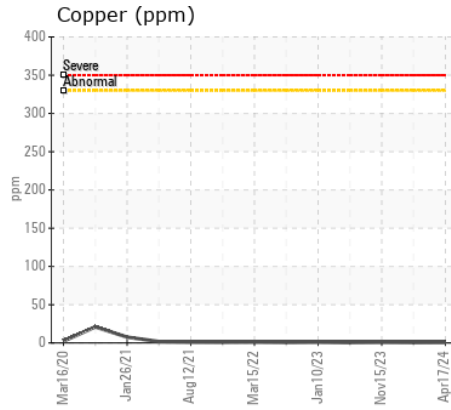
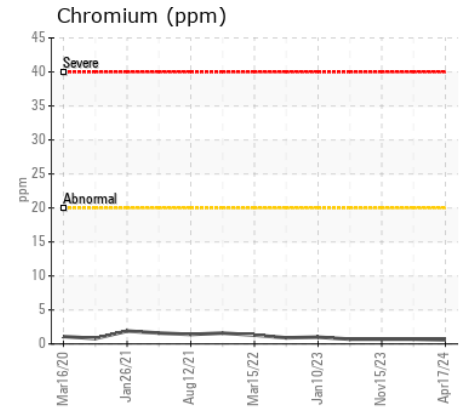
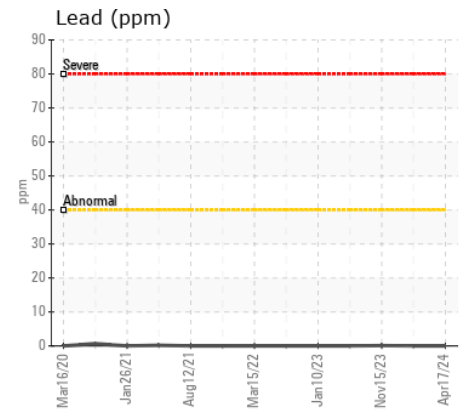
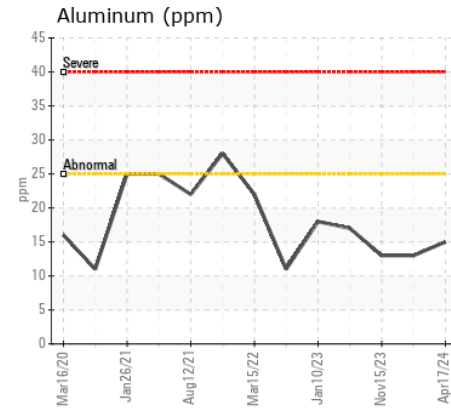
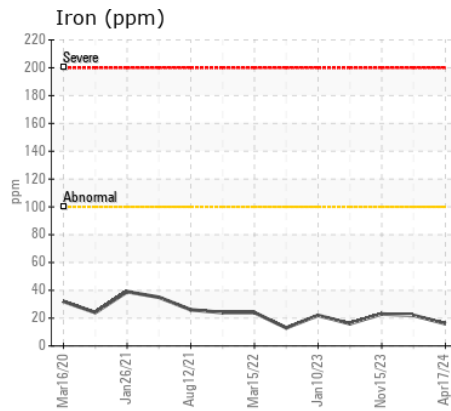
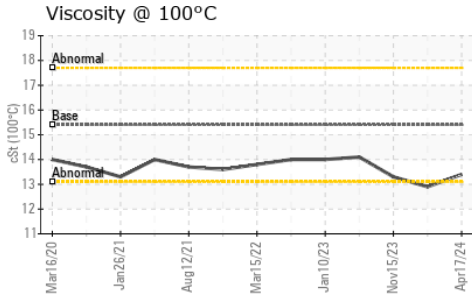
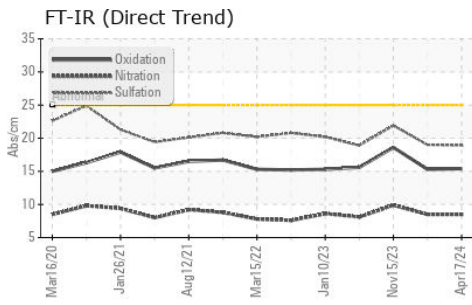
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	4	7
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 2.4	<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>	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	8.5	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	19.0	21.9
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>17</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	6	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>56</b>	53	59
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>900</b>	858	947
Calcium	ppm	ASTM D5185(m)	1070	<b>1140</b>	1228	1106
Phosphorus	ppm	ASTM D5185(m)	1150	<b>977</b>	1000	984
Zinc	ppm	ASTM D5185(m)	1270	<b>1167</b>	1155	1195
Sulfur	ppm	ASTM D5185(m)	2060	<b>2437</b>	2653	2437
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.4</b>	15.3	18.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.4</b>	12.9	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113336  
**Lab Number** : 02630896  
**Unique Number** : 5772049  
**Test Package** : MOB 1

**GFL Environmental - 720 - Lafleche - Landfill**  
 17125 Lafleche Road,  
 Moose Creek, ON  
 CA K0C 1W0  
 Contact: Charles Bergeron  
 cbergeron@gflenv.com  
 T: (613)538-4853  
 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.