



Machine Id  
**925063**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117336</b>	GFL0049128	---
Sample Date		Client Info		<b>29 Mar 2024</b>	14 Apr 2022	---
Machine Age	kms	Client Info		<b>292376</b>	7628	---
Oil Age	kms	Client Info		<b>0</b>	0	---
Filter Age	kms	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>11</b>	88	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	2	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	3	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	4	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	3	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	2	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

### CONTAMINATION

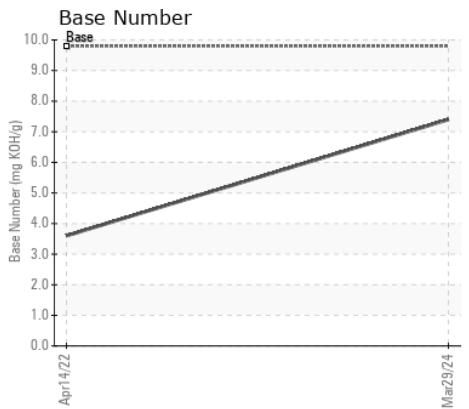
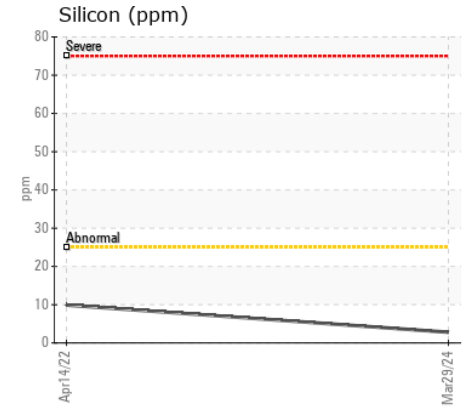
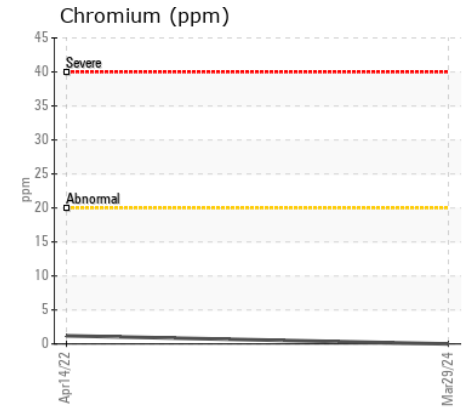
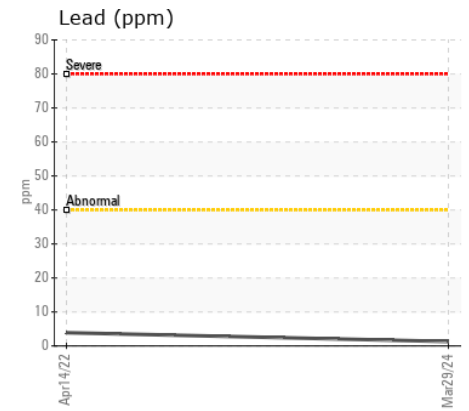
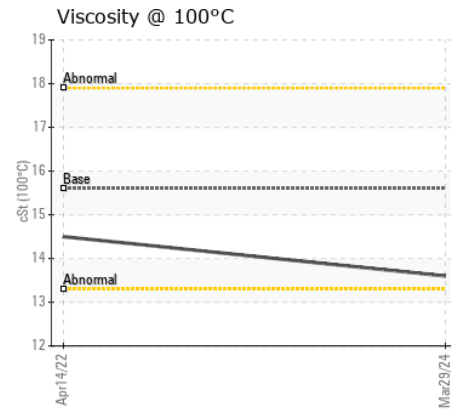
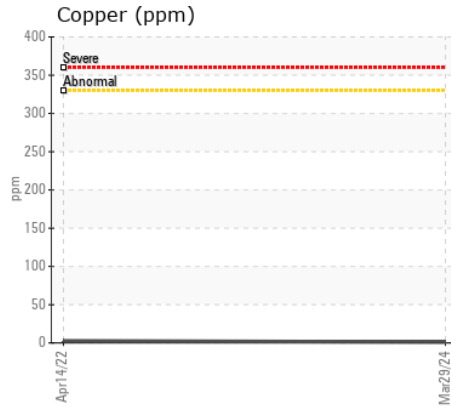
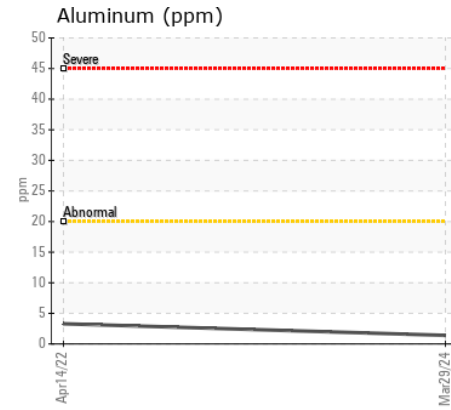
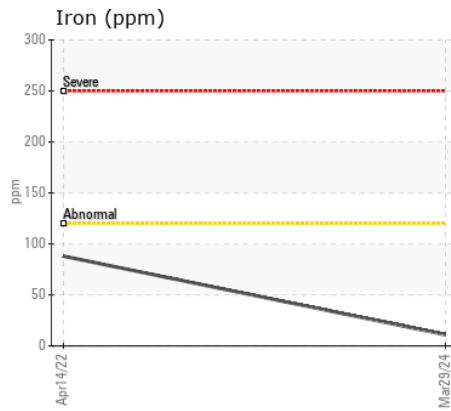
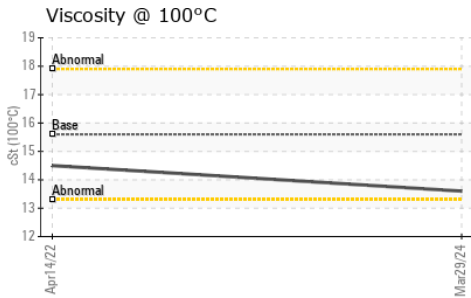
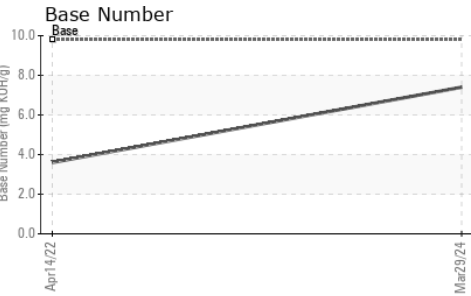
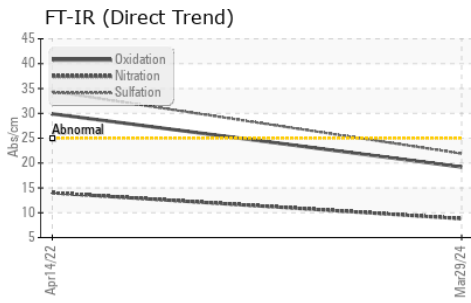
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	10	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	4	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>4	<b>0.2</b>	1	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	14.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.9</b>	34.4	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	4	---
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	8	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	44	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>980</b>	235	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1081</b>	1998	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>976</b>	955	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1192</b>	1128	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2335</b>	2461	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.2</b>	29.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>7.40</b>	▲ 3.60	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.6</b>	14.5	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 550 - Rocky View County**  
**Sample No.** : GFL0117336 **Received** : 15 Apr 2024 **220 Carmek Blvd**  
**Lab Number** : 02628780 **Tested** : 17 Apr 2024 **Rocky View County, AB**  
**Unique Number** : 5761912 **Diagnosed** : 17 Apr 2024 - Wes Davis **CA T1X 1X1**  
**Test Package** : MOB 2 **Contact: GFL Calgary**  
**calgarymaintenance@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.

**T:**  
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