



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

Machine Id  
**501050**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0125415</b>	GFL0116098	GFL0104018
Sample Date		Client Info		<b>07 Jun 2024</b>	19 Mar 2024	12 Dec 2023
Machine Age	kms	Client Info		<b>994457</b>	992642	992331
Oil Age	kms	Client Info		<b>0</b>	300	1500
Filter Age	kms	Client Info		<b>0</b>	300	1500
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>5</b>	8	8
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<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)	>30	<b>2</b>	1	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

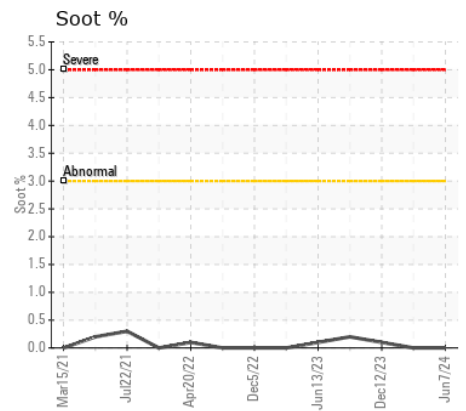
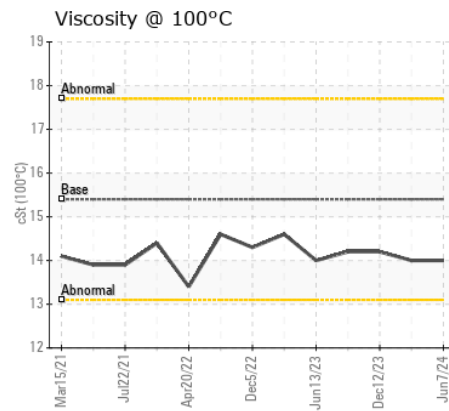
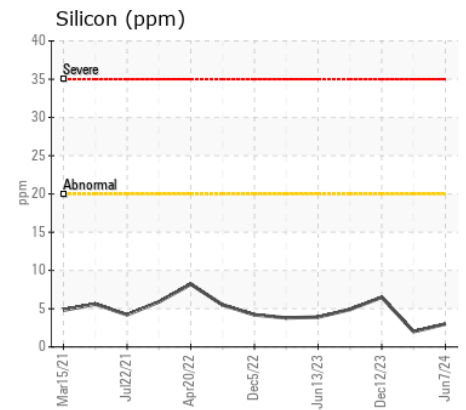
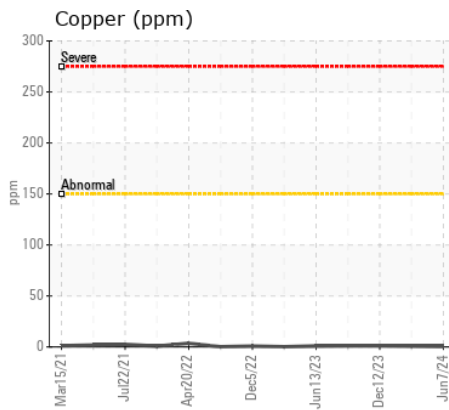
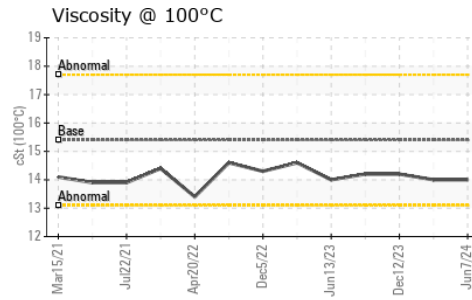
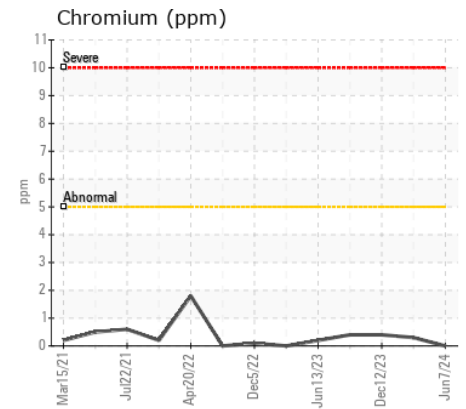
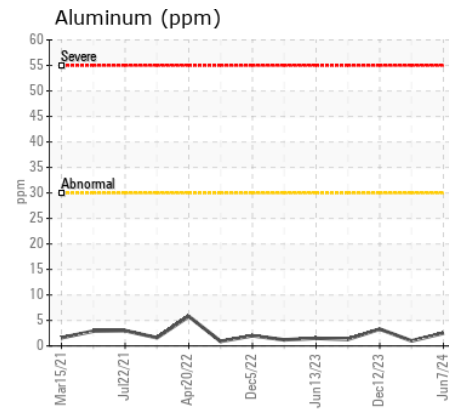
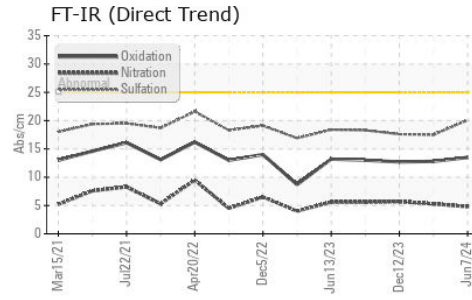
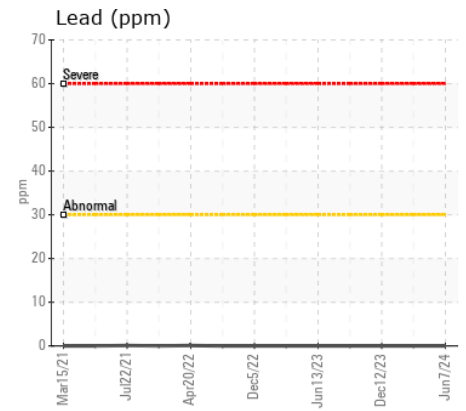
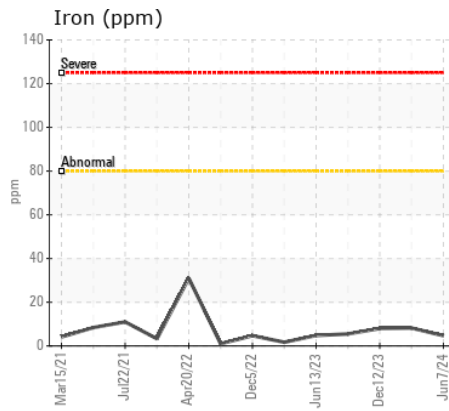
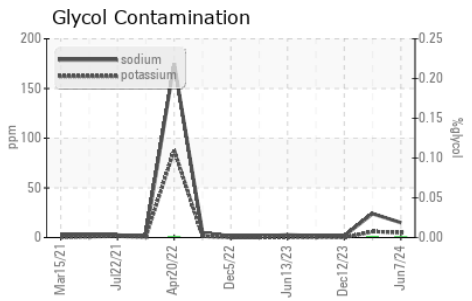
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	2	6
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	6	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.8</b>	5.3	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	17.5	17.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>15</b>	24	2
Boron	ppm	ASTM D5185(m)	0	<b>383</b>	11	9
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>82</b>	60	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>436</b>	928	898
Calcium	ppm	ASTM D5185(m)	1070	<b>1303</b>	1064	1009
Phosphorus	ppm	ASTM D5185(m)	1150	<b>996</b>	962	907
Zinc	ppm	ASTM D5185(m)	1270	<b>1151</b>	1131	1113
Sulfur	ppm	ASTM D5185(m)	2060	<b>2667</b>	2539	2429
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	12.8	12.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	14.0	14.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0125415 **Received** : 10 Jun 2024  
**Lab Number** : 02640638 **Tested** : 10 Jun 2024  
**Unique Number** : 5789800 **Diagnosed** : 10 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

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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.