



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

Machine Id  
**901052**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (36)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100330</b>	GFL0100311	GFL0064981
Sample Date		Client Info		<b>10 Apr 2024</b>	14 Dec 2023	27 Oct 2023
Machine Age	hrs	Client Info		<b>10034</b>	9460	9242
Oil Age	hrs	Client Info		<b>574</b>	218	580
Filter Age	hrs	Client Info		<b>574</b>	218	580
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>8</b>	3	10
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>10</b>	3	7
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

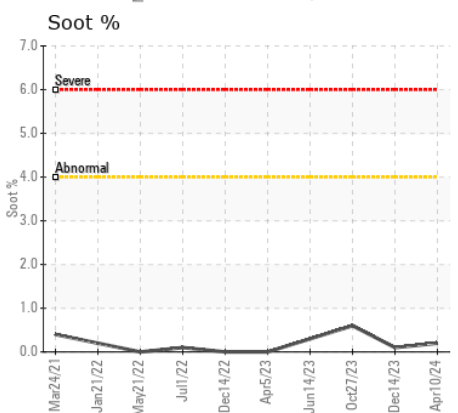
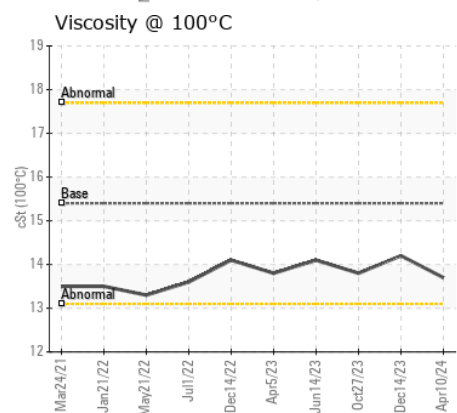
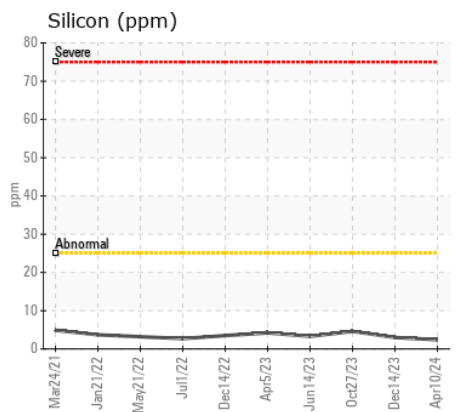
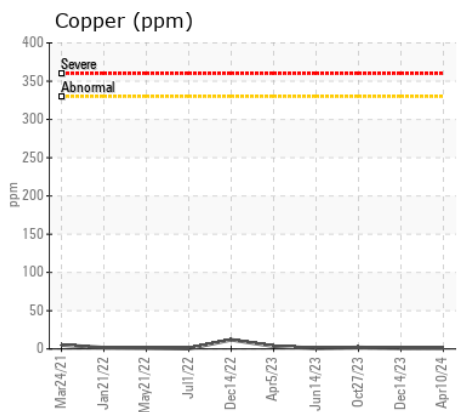
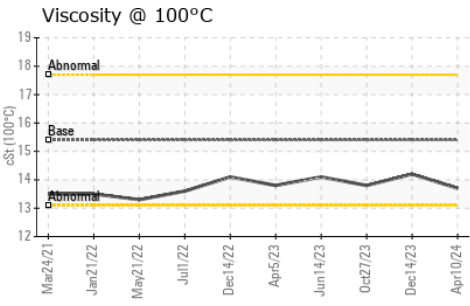
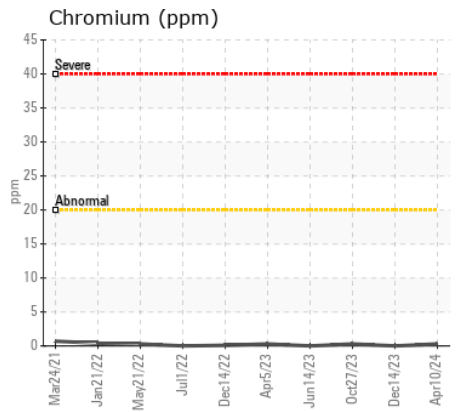
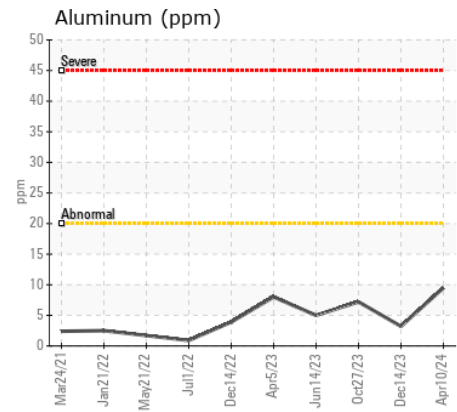
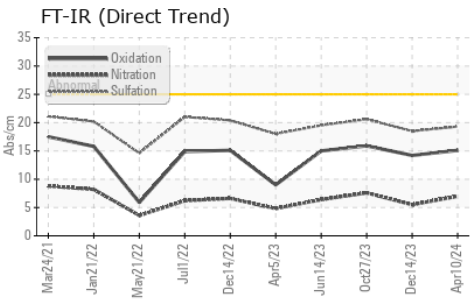
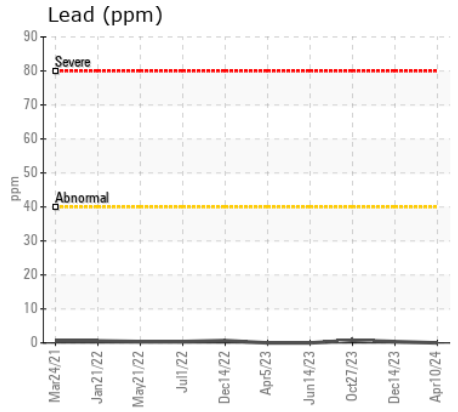
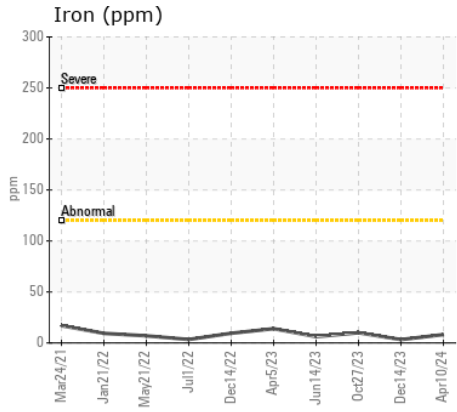
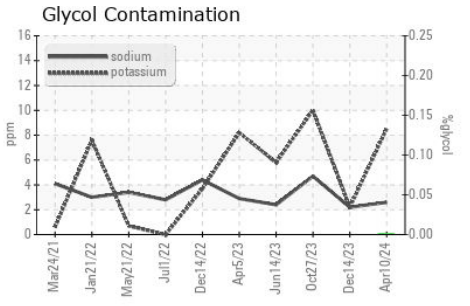
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	2	10
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	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.2</b>	0.1	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	5.5	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	18.5	20.6
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>3</b>	2	5
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	10
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	59	65
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>977</b>	952	1061
Calcium	ppm	ASTM D5185(m)	1070	<b>1040</b>	1034	1209
Phosphorus	ppm	ASTM D5185(m)	1150	<b>978</b>	964	1051
Zinc	ppm	ASTM D5185(m)	1270	<b>1168</b>	1148	1306
Sulfur	ppm	ASTM D5185(m)	2060	<b>2399</b>	2495	2676
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.1</b>	14.2	15.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	14.2	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100330  
**Lab Number** : 02628666  
**Unique Number** : 5761798  
**Test Package** : MOB 1 ( Additional Tests: Glycol )  
**Received** : 15 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Wes Davis

**GFL Environmental - 556 - Whitecourt**  
 4138 - 42 Street,  
 Whitecourt, AB  
 CA T7S 1P1  
 Contact: Kash Wagoner  
 kwagoner@gflenv.com  
 T: (780)778-4888  
 F: (780)778-8707

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.