



Machine Id  
**512006**  
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>GFL0120308</b>	GFL0098562	GFL0084209
Sample Date		Client Info		<b>21 May 2024</b>	19 Dec 2023	10 Jul 2023
Machine Age	kms	Client Info		<b>312869</b>	256397	184937
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
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)	>120	<b>24</b>	41	38
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	2
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	5	5
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	3	3
Copper	ppm	ASTM D5185(m)	>330	<b>7</b>	12	21
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

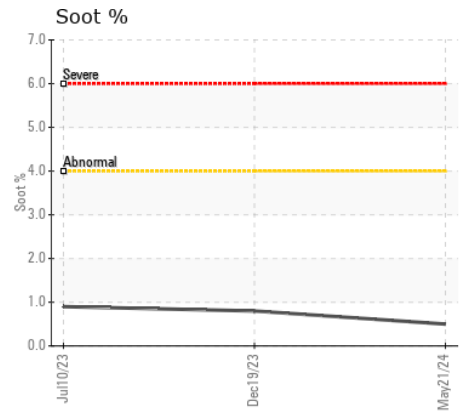
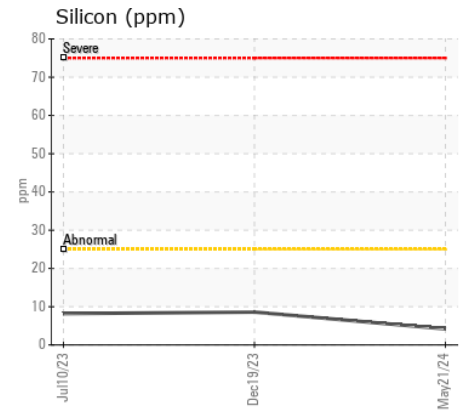
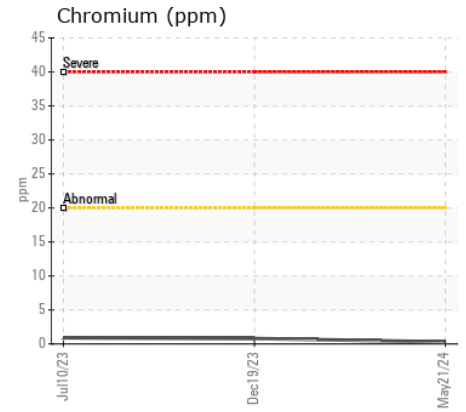
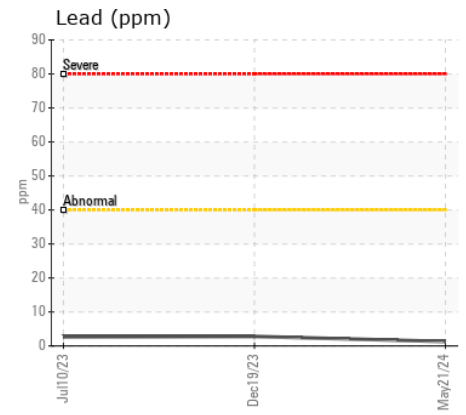
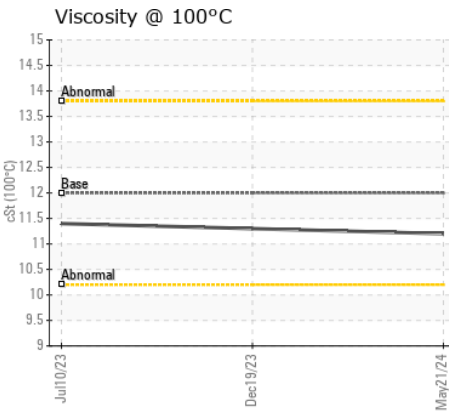
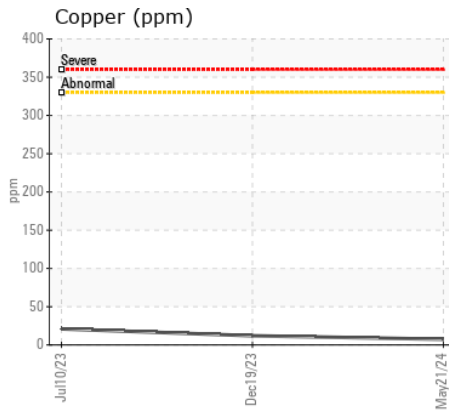
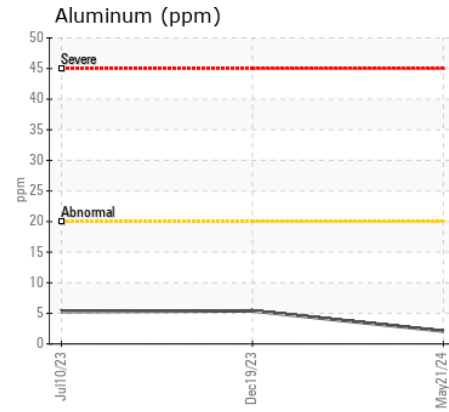
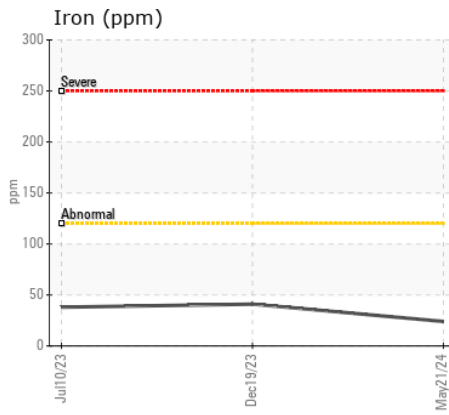
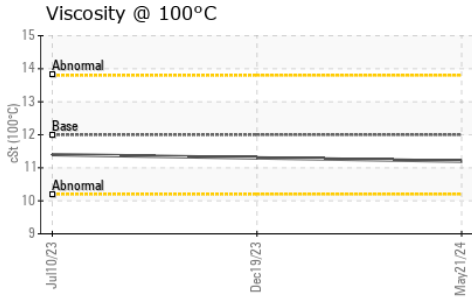
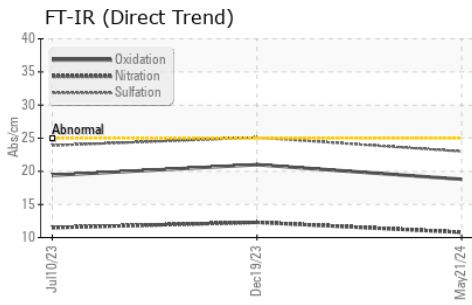
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	9	8
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	12	13
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		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0.5</b>	0.8	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	12.3	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.0</b>	25.1	23.9
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>2</b>	2	10
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	2	3
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	66	65
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>952</b>	1003	1016
Calcium	ppm	ASTM D5185(m)	1050	<b>1201</b>	1182	1168
Phosphorus	ppm	ASTM D5185(m)	995	<b>934</b>	997	1010
Zinc	ppm	ASTM D5185(m)	1180	<b>1178</b>	1252	1262
Sulfur	ppm	ASTM D5185(m)	2600	<b>2308</b>	2391	2232
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.8</b>	21.0	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.2</b>	11.3	11.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120308 **Received** : 24 May 2024  
**Lab Number** : 02637402 **Tested** : 24 May 2024  
**Unique Number** : 5786564 **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MOB 1

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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.