



Machine Id
901111
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096738	---	---
Sample Date		Client Info		06 Mar 2024	---	---
Machine Age	hrs	Client Info		6359	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		1200	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	10	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---	---
Lead	ppm	ASTM D5185(m)	>40	6	---	---
Copper	ppm	ASTM D5185(m)	>330	2	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

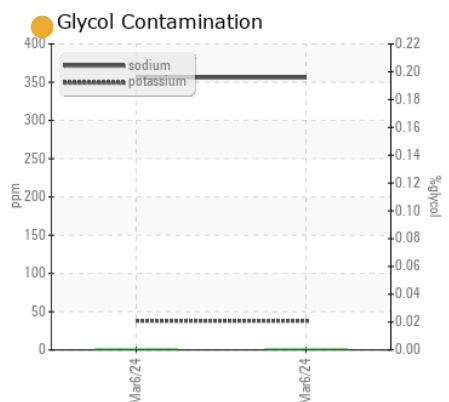
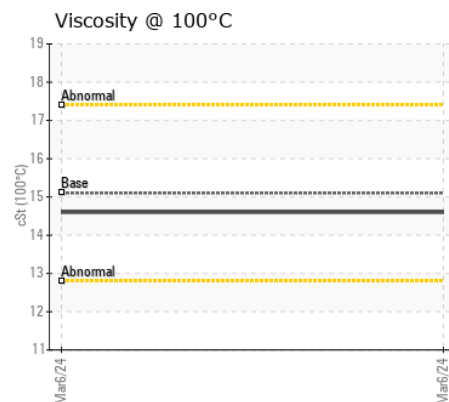
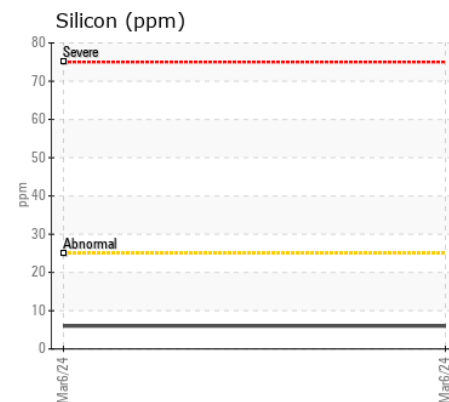
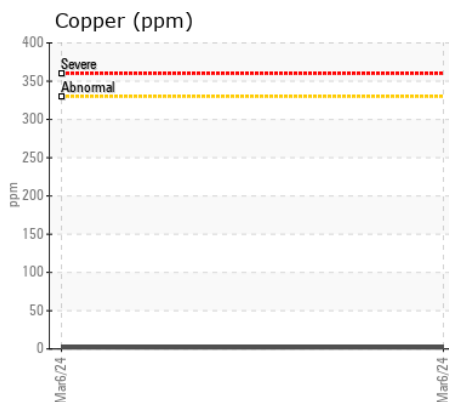
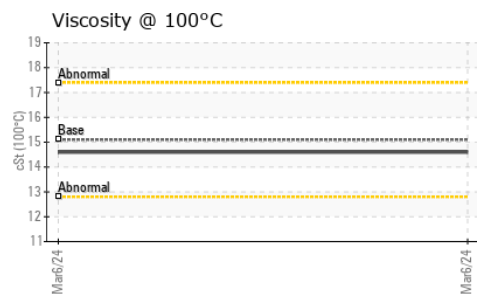
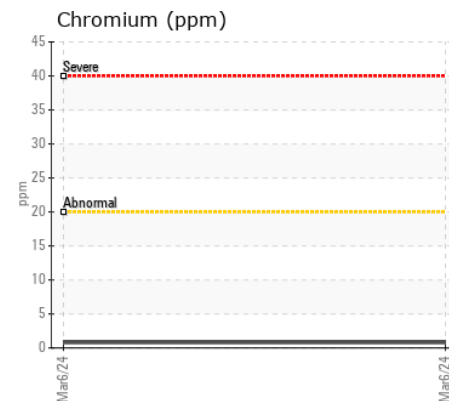
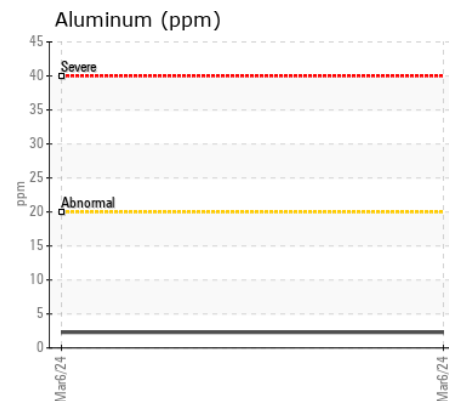
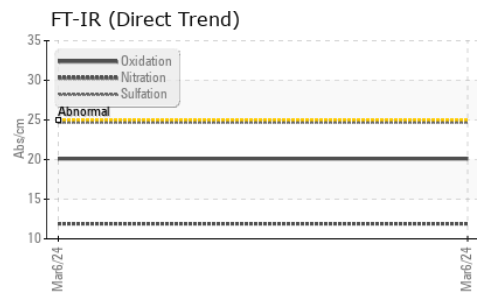
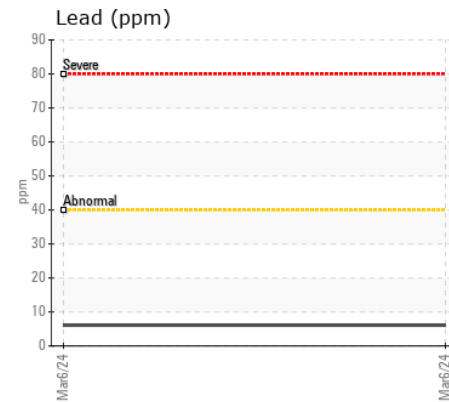
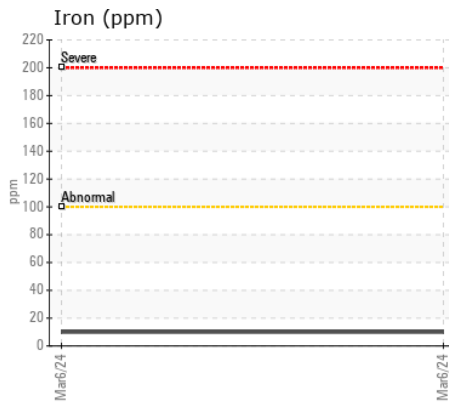
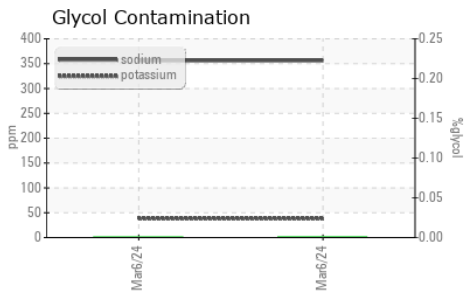
Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	38	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service (see recommendation).

Sodium	ppm	ASTM D5185(m)		356	---	---
Boron	ppm	ASTM D5185(m)	50	10	---	---
Barium	ppm	ASTM D5185(m)	5	0	---	---
Molybdenum	ppm	ASTM D5185(m)	50	61	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	560	515	---	---
Calcium	ppm	ASTM D5185(m)	1510	1545	---	---
Phosphorus	ppm	ASTM D5185(m)	780	601	---	---
Zinc	ppm	ASTM D5185(m)	870	865	---	---
Sulfur	ppm	ASTM D5185(m)	2040	1996	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096738 **Received** : 23 Apr 2024
Lab Number : 02630928 **Tested** : 23 Apr 2024
Unique Number : 5772081 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 574 - Vancouver Fleet
 70 Golden Drive,
 Coquitlam, BC
 CA V3K 6B5
 Contact: Sanjay Kisun
 skisun@gflenv.com
 T: (604)529-4030
 F: (604)529-4026

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.