



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
942001
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113023	GFL0059650	---
Sample Date		Client Info		29 May 2024	02 Oct 2023	---
Machine Age	hrs	Client Info		23669	22455	---
Oil Age	hrs	Client Info		599	0	---
Filter Age	hrs	Client Info		599	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	14	11	---
Chromium	ppm	ASTM D5185m	>4	<1	1	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>9	2	2	---
Lead	ppm	ASTM D5185m	>30	3	<1	---
Copper	ppm	ASTM D5185m	>35	9	4	---
Tin	ppm	ASTM D5185m	>4	2	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

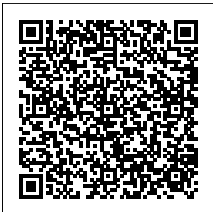
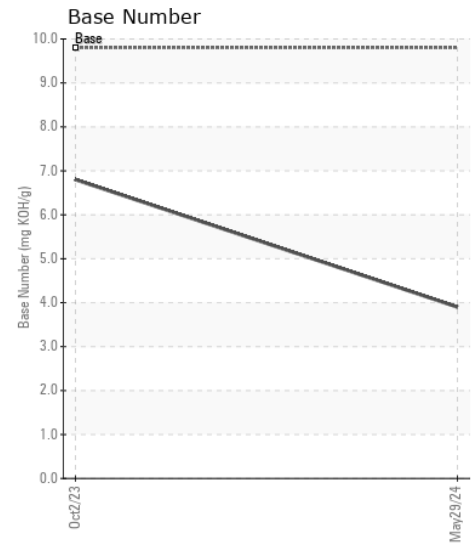
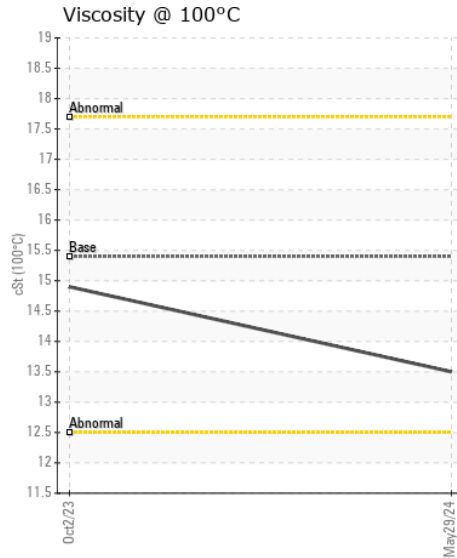
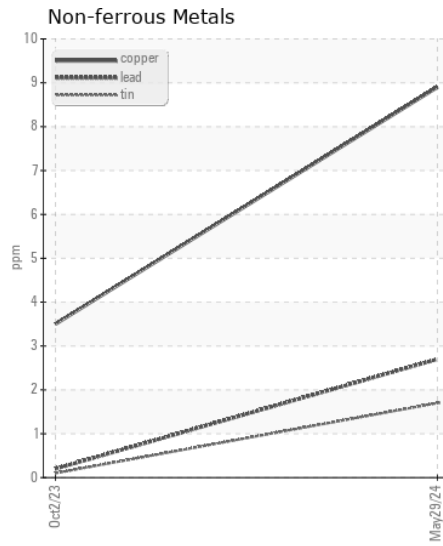
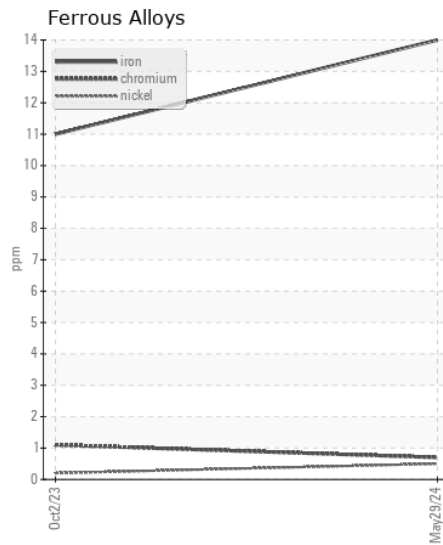
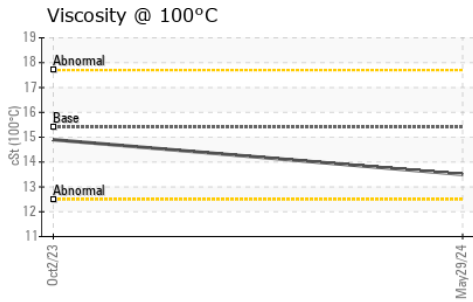
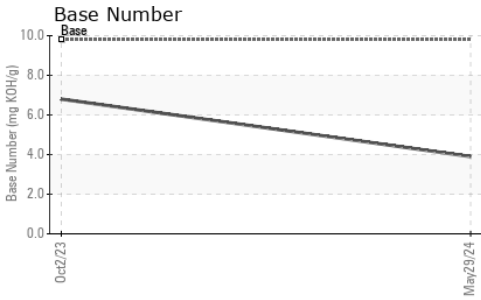
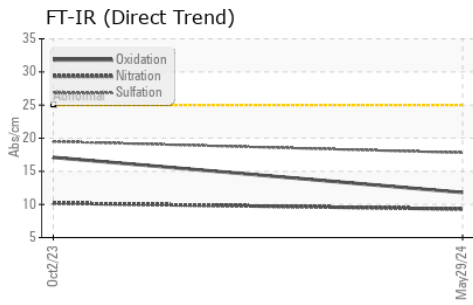
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	14	4	---
Potassium	ppm	ASTM D5185m	>20	2	5	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	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 D5185m		11	8	---
Boron	ppm	ASTM D5185m	0	48	14	---
Barium	ppm	ASTM D5185m	0	6	0	---
Molybdenum	ppm	ASTM D5185m	60	13	55	---
Manganese	ppm	ASTM D5185m	0	2	<1	---
Magnesium	ppm	ASTM D5185m	1010	135	586	---
Calcium	ppm	ASTM D5185m	1070	1194	1606	---
Phosphorus	ppm	ASTM D5185m	1150	735	774	---
Zinc	ppm	ASTM D5185m	1270	889	972	---
Sulfur	ppm	ASTM D5185m	2060	2091	2708	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	17.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	3.9	6.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	14.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0113023
Lab Number : 06197329
Unique Number : 11059452
Test Package : FLEET

Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Sean Felton

GFL Environmental - 924 - Madison HC
 300 Raemisch Road
 Waunakee, WI
 US 53597
 Contact: Ben Briggs
 ben.briggs@gflenv.com
 T: (608)770-9196
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)