



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
533000
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0108360	GFL0090356	---
Sample Date		Client Info		23 Feb 2024	25 Aug 2023	---
Machine Age	hrs	Client Info		2578	1476	---
Oil Age	hrs	Client Info		1102	1476	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	21	51	---
Chromium	ppm	ASTM D5185m	>4	5	8	---
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	▲ 24	61	---
Lead	ppm	ASTM D5185m	>30	9	11	---
Copper	ppm	ASTM D5185m	>35	7	13	---
Tin	ppm	ASTM D5185m	>4	1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

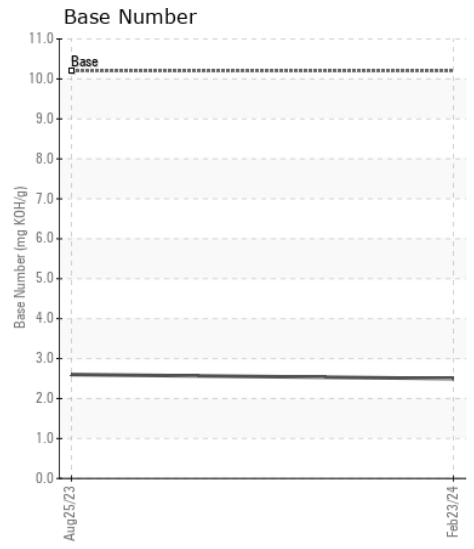
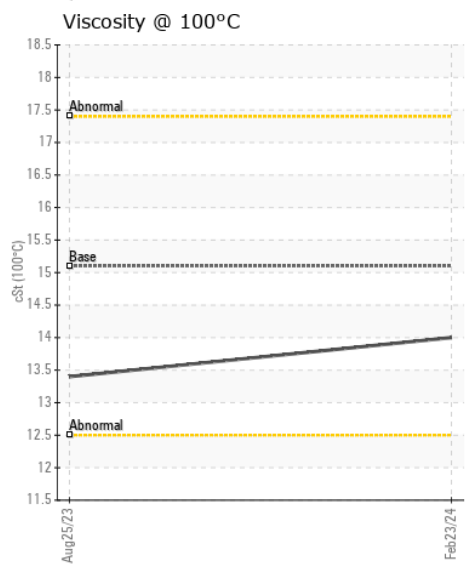
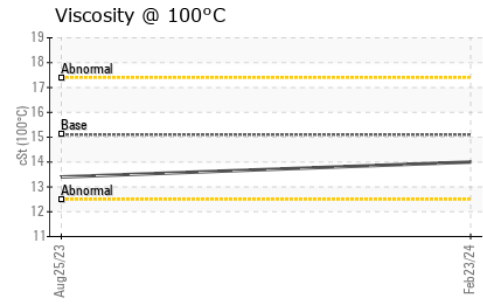
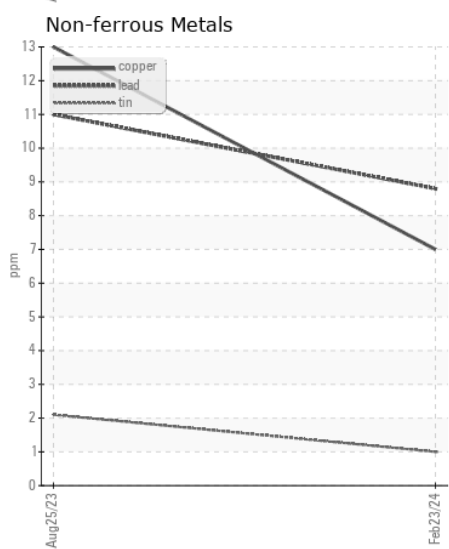
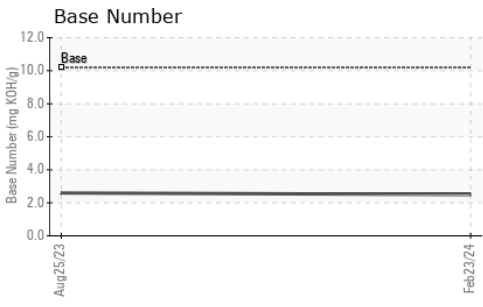
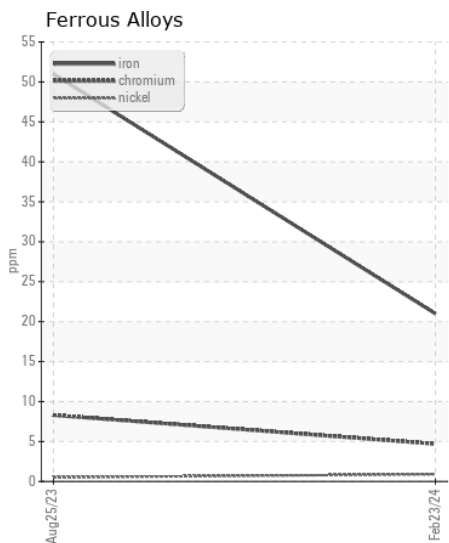
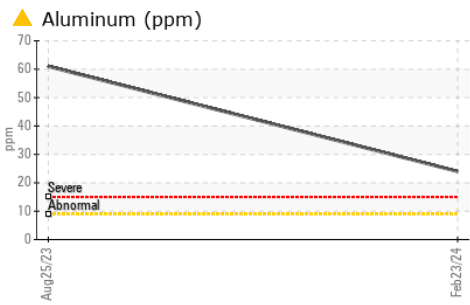
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	18	76	---
Potassium	ppm	ASTM D5185m	>20	37	108	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	*ASTM D7844		0	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	12.0	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.3	25.5	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	4	---
Boron	ppm	ASTM D5185m	50	3	9	---
Barium	ppm	ASTM D5185m	5	0	4	---
Molybdenum	ppm	ASTM D5185m	50	61	116	---
Manganese	ppm	ASTM D5185m	0	2	5	---
Magnesium	ppm	ASTM D5185m	560	575	758	---
Calcium	ppm	ASTM D5185m	1510	1475	1504	---
Phosphorus	ppm	ASTM D5185m	780	732	748	---
Zinc	ppm	ASTM D5185m	870	933	958	---
Sulfur	ppm	ASTM D5185m	2040	2536	3535	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	21.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.5	2.6	---
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	13.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0108360
Lab Number : 06102764
Unique Number : 10900994
Test Package : FLEET
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Don Baldrige

GFL Environmental - 963 - Peoria HC Disposal
 1113 N. Swords Ave.
 West Peoria, IL
 US 61604
 Contact: Corey Dozard
 cdozard@gflenv.com

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)