



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(YA171056)
Machine Id
9154
Component
Natural Gas Engine
Fluid
PETRO CANADA 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112890	GFL0098155	GFL0098116
Sample Date		Client Info		12 Apr 2024	13 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		15527	15527	15527
Oil Age	hrs	Client Info		15527	666	279
Filter Age	hrs	Client Info		0	0	279
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	10	14	14
Chromium	ppm	ASTM D5185m	>4	<1	2	2
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	6	6
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>35	2	4	3
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

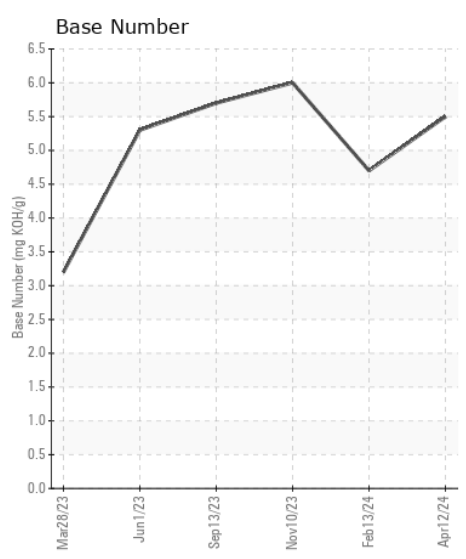
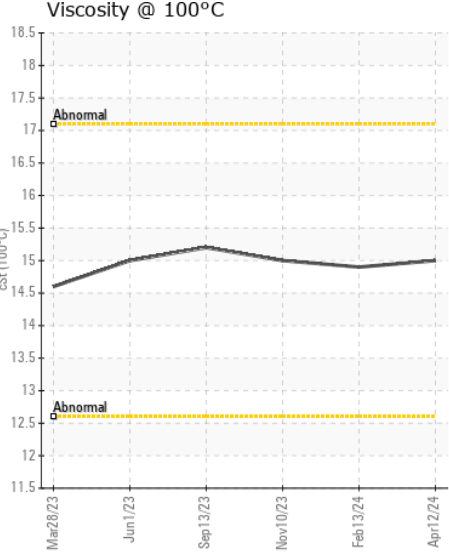
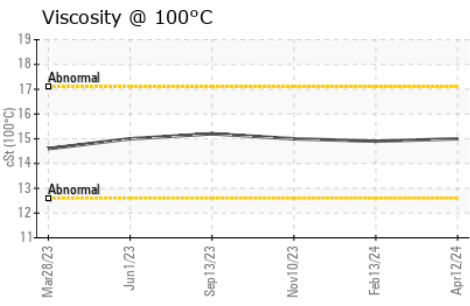
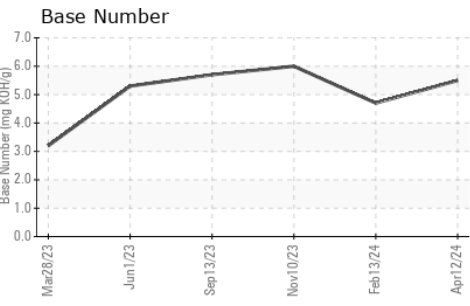
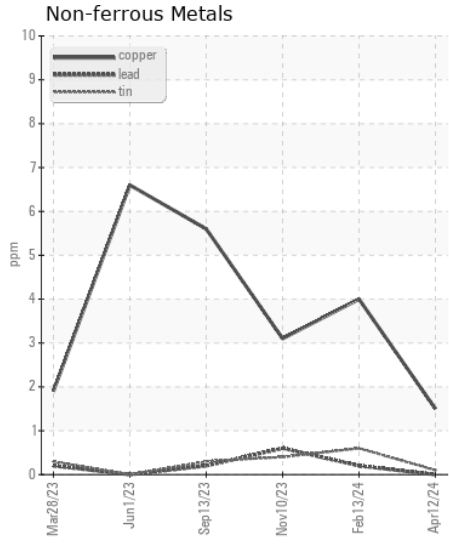
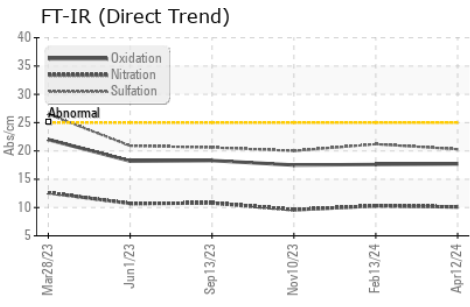
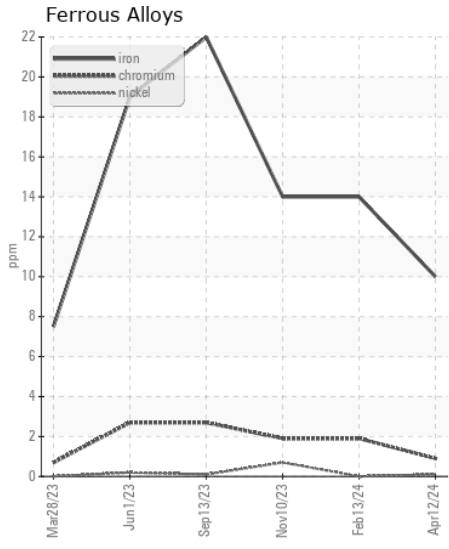
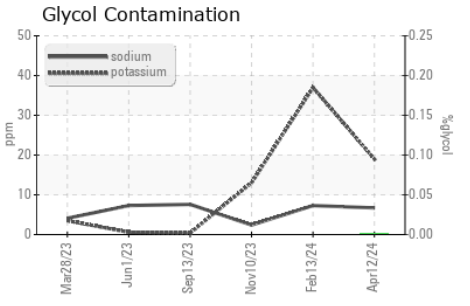
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	4	6
Potassium	ppm	ASTM D5185m	>20	19	37	13
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.0	---	---
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.2	20.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		7	7	2
Boron	ppm	ASTM D5185m		11	13	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		52	49	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		630	567	560
Calcium	ppm	ASTM D5185m		1685	1514	1515
Phosphorus	ppm	ASTM D5185m		831	720	735
Zinc	ppm	ASTM D5185m		1058	955	935
Sulfur	ppm	ASTM D5185m		3024	3014	2520
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	17.6	17.5
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	4.7	6.0
Visc @ 100°C	cSt	ASTM D445		15.0	14.9	15.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0112890 **Received** : 15 Apr 2024
Lab Number : 06149303 **Tested** : 17 Apr 2024
Unique Number : 10979381 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 017 - Durham
 148 Stone Park Court
 Durham, NC
 US 27703
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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)