



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**358054**

Component  
**Gasoline Engine**

Fluid  
**PETRO CANADA SUPREME™ SYNTHETIC BLEND 5W20 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0108126</b>	GFL0102536	GFL0093726
Sample Date		Client Info		<b>23 Jan 2024</b>	05 Dec 2023	05 Oct 2023
Machine Age	mls	Client Info		<b>341229</b>	334700	326741
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>16</b>	19	25
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	2
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>3</b>	5	4
Lead	ppm	ASTM D5185m	>50	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>155	<b>2</b>	3	6
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

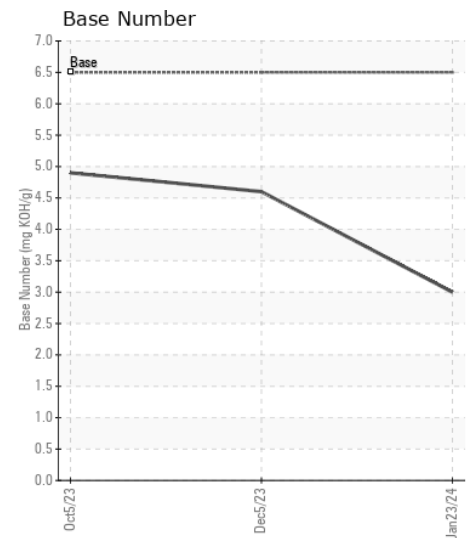
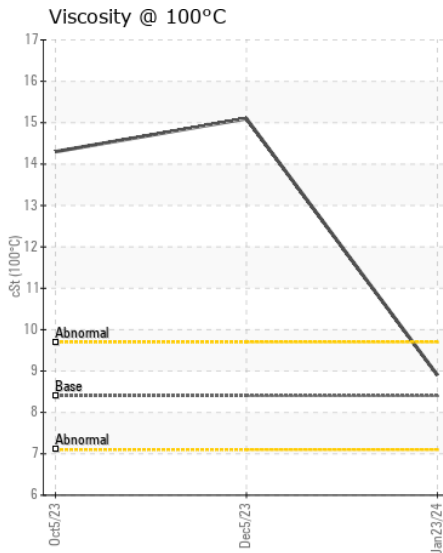
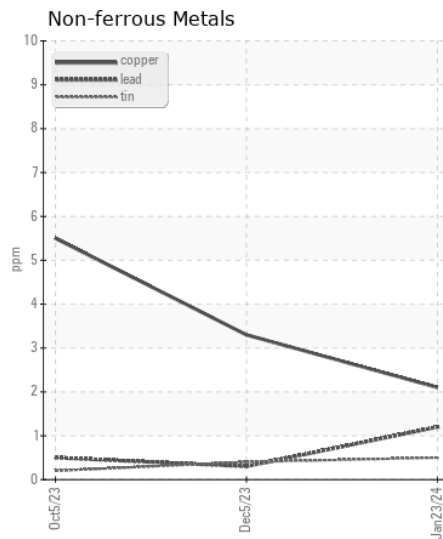
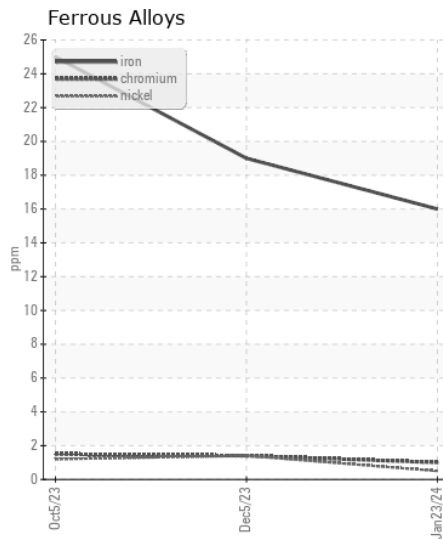
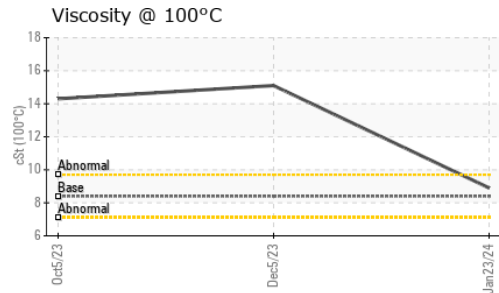
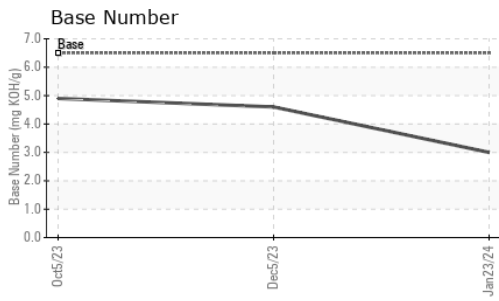
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>21</b>	16	▲ 33
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	3
Fuel		WC Method	>4.0	<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		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	13.3	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	28.2	25.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	>400	<b>32</b>	24	7
Boron	ppm	ASTM D5185m		<b>18</b>	0	2
Barium	ppm	ASTM D5185m		<b>0</b>	12	<1
Molybdenum	ppm	ASTM D5185m		<b>73</b>	55	67
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>587</b>	811	850
Calcium	ppm	ASTM D5185m		<b>961</b>	910	1071
Phosphorus	ppm	ASTM D5185m	770	<b>747</b>	788	892
Zinc	ppm	ASTM D5185m		<b>835</b>	1098	1190
Sulfur	ppm	ASTM D5185m	2690	<b>2711</b>	2328	2760
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	25.7	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	<b>3.0</b>	4.6	4.9
Visc @ 100°C	cSt	ASTM D445	8.4	<b>8.9</b>	15.1	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108126 **Received** : 01 Feb 2024  
**Lab Number** : 06077515 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10859606 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: BRYAN SWANSON  
 bryanswanson@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)

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F: