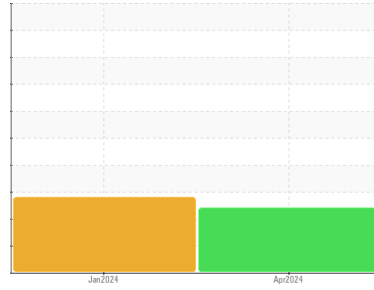




# OIL ANALYSIS REPORT

## Sample Rating Trend



DIRT



Machine Id  
**925039-260315**

Component  
**Transmission (Auto)**

Fluid  
**PETRO CANADA DuraDrive HD Synthetic 668 (--- GAL)**

## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

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

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

The condition of the fluid is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0117184</b>	GFL0109761	---
Sample Date	Client Info	<b>18 Apr 2024</b>	29 Jan 2024	---
Machine Age	hrs	Client Info	<b>23652</b>	23060
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>&gt;0.1</b>	<b>NEG</b>	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>160	<b>▲ 176</b>	▲ 204
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>50	<b>32</b>	30
Lead	ppm	ASTM D5185m	>50	<b>31</b>	35
Copper	ppm	ASTM D5185m	>225	<b>27</b>	24
Tin	ppm	ASTM D5185m	>10	<b>3</b>	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>86</b>	85
Barium	ppm	ASTM D5185m		<b>1</b>	<1
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	1
Magnesium	ppm	ASTM D5185m		<b>12</b>	2
Calcium	ppm	ASTM D5185m		<b>143</b>	109
Phosphorus	ppm	ASTM D5185m		<b>242</b>	205
Zinc	ppm	ASTM D5185m		<b>24</b>	6
Sulfur	ppm	ASTM D5185m		<b>1815</b>	1693

## CONTAMINANTS

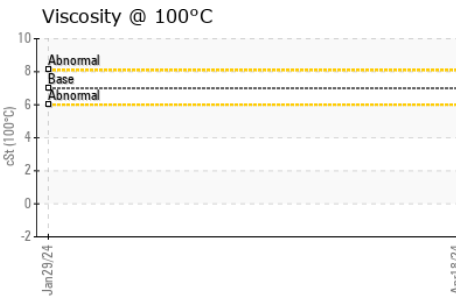
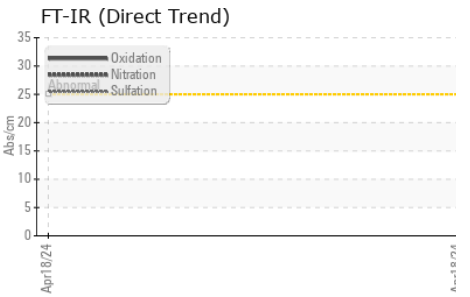
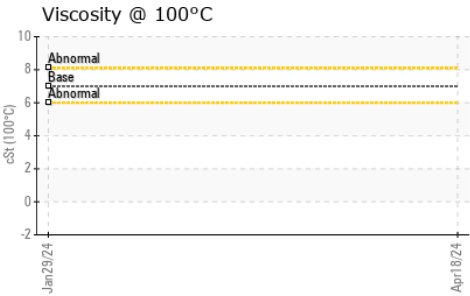
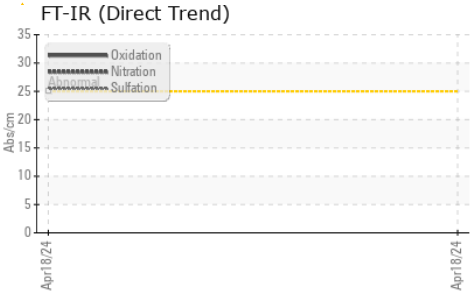
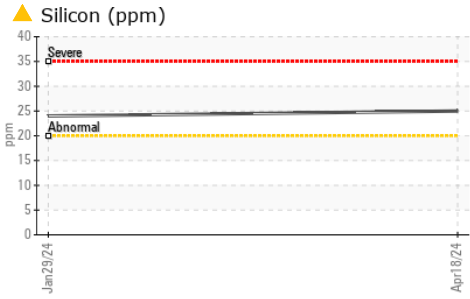
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	<b>▲ 25</b>	▲ 24
Sodium	ppm	ASTM D5185m		<b>10</b>	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2

## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG



# OIL ANALYSIS REPORT

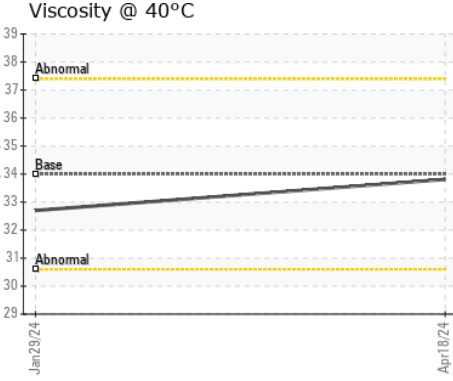
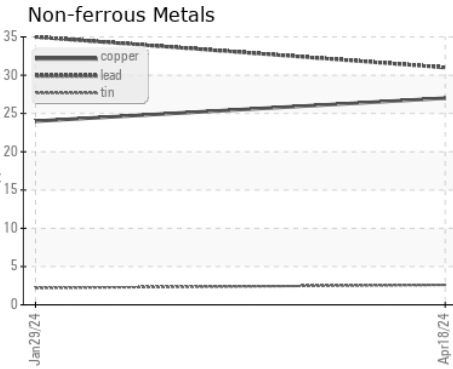
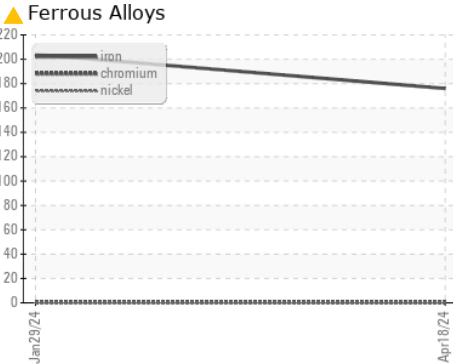


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34	<b>33.81</b>	32.7	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117184      **Received** : 22 Apr 2024  
**Lab Number** : 06155760      **Tested** : 26 Apr 2024  
**Unique Number** : 10991183      **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FT-IR, KV100 )

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@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)