



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



Machine Id  
**DT818**

Component  
**Rear Differential**

Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0113236</b>	PCA0103267	PCA0091246
Sample Date		Client Info		<b>11 Apr 2024</b>	13 Sep 2023	17 Mar 2023
Machine Age	mls	Client Info		<b>78834</b>	51659	26287
Oil Age	mls	Client Info		<b>61659</b>	26287	26287
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	None
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>208</b>	209	158
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>20	<b>12</b>	9	7
Titanium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	6	2
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>1</b>	1	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

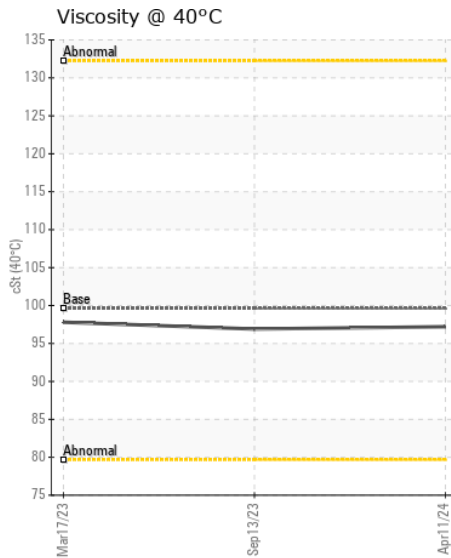
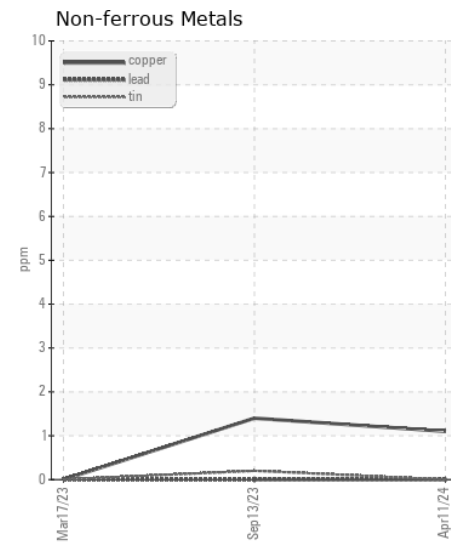
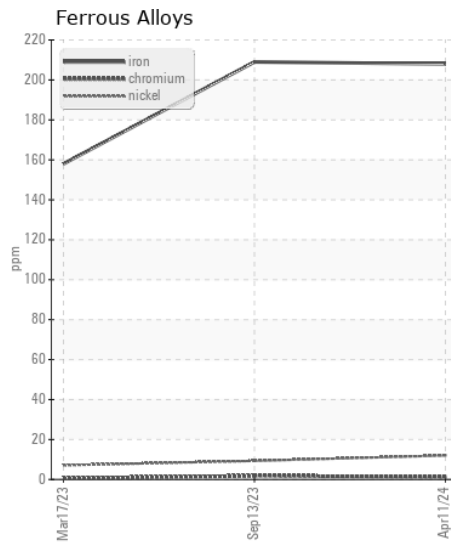
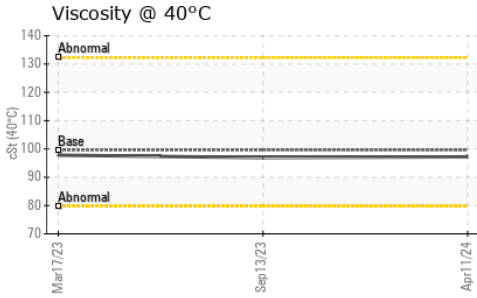
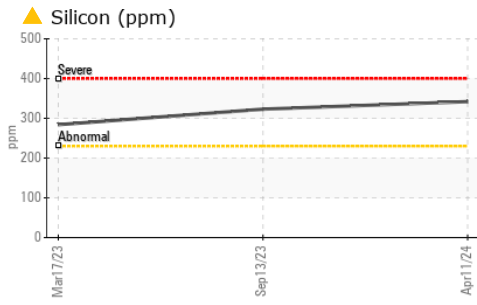
Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>230	<b>▲ 342</b>	▲ 323	284
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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	>.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	4	2
Boron	ppm	ASTM D5185m	328	<b>158</b>	167	163
Barium	ppm	ASTM D5185m	1	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	2	1
Manganese	ppm	ASTM D5185m		<b>3</b>	4	3
Magnesium	ppm	ASTM D5185m	1	<b>10</b>	17	18
Calcium	ppm	ASTM D5185m	7	<b>64</b>	69	60
Phosphorus	ppm	ASTM D5185m	1145	<b>1135</b>	1163	1066
Zinc	ppm	ASTM D5185m	3	<b>31</b>	25	29
Sulfur	ppm	ASTM D5185m	17909	<b>29544</b>	30929	25056
Visc @ 40°C	cSt	ASTM D445	99.6	<b>97.2</b>	96.9	97.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113236  
**Lab Number** : 06150718  
**Unique Number** : 10980796  
**Test Package** : FLEET

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

**NW WHITE & CO - ANDERSON DIVISION**  
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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)