



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

Machine Id  
**DT650**  
 Component  
**Front Differential**  
 Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 mls)**

**RECOMMENDATION**

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0127162</b>	PCA0103235	PCA0080945
Sample Date		Client Info		<b>17 May 2024</b>	25 Aug 2023	26 Oct 2022
Machine Age	mls	Client Info		<b>202757</b>	173196	147774
Oil Age	mls	Client Info		<b>0</b>	25422	135670
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	None	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185m	>500	<b>185</b>	140	246
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>▲ 253</b>	82	42
Tin	ppm	ASTM D5185m	>10	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE

**CONTAMINATION**

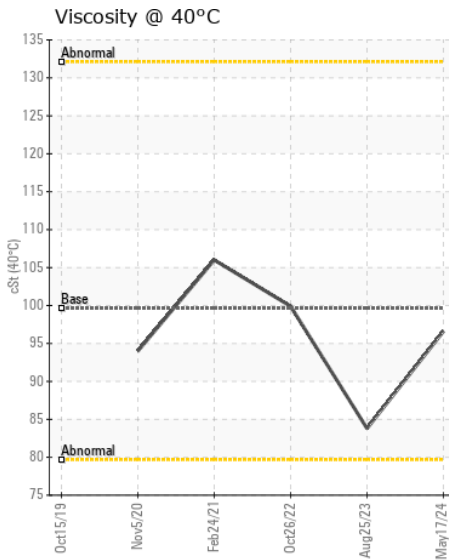
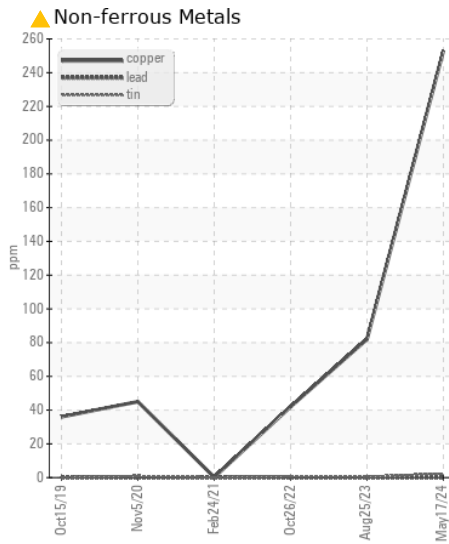
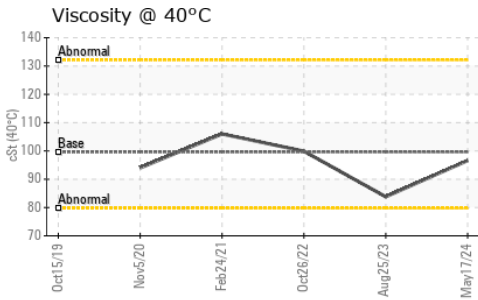
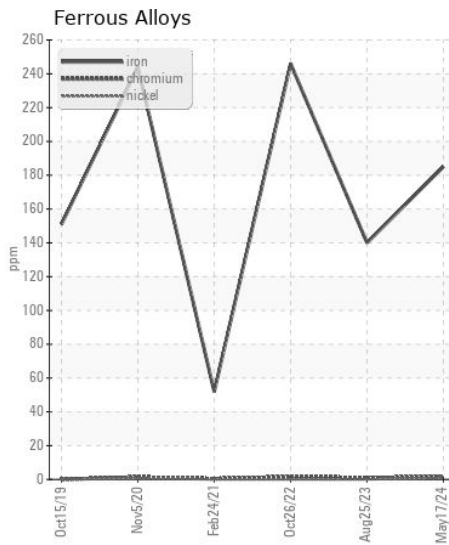
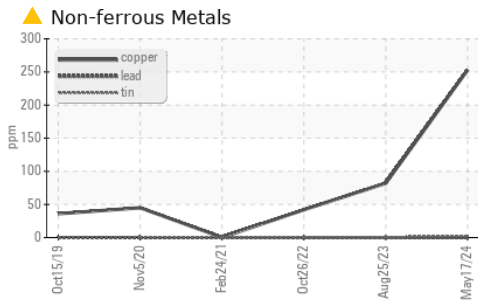
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>50</b>	16	24
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
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	>.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>&lt;1</b>	2	3
Boron	ppm	ASTM D5185m	328	<b>214</b>	263	233
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>18</b>	18	<1
Manganese	ppm	ASTM D5185m		<b>5</b>	4	9
Magnesium	ppm	ASTM D5185m	1	<b>188</b>	192	1
Calcium	ppm	ASTM D5185m	7	<b>251</b>	268	8
Phosphorus	ppm	ASTM D5185m	1145	<b>1251</b>	1385	1388
Zinc	ppm	ASTM D5185m	3	<b>263</b>	274	7
Sulfur	ppm	ASTM D5185m	17909	<b>20106</b>	23795	27624
Visc @ 40°C	cSt	ASTM D445	99.6	<b>96.6</b>	83.8	99.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0127162  
**Lab Number** : 06189836  
**Unique Number** : 11046588  
**Test Package** : FLEET

**Received** : 23 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Jonathan Hester

**NW WHITE & CO - ANDERSON DIVISION**  
 2605 RIVER RD  
 PIEDMONT, SC  
 US 29673

Contact: James Threatt  
 jthreatt@nwwhite.com

T: (864)918-4646

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)

F: