



Machine Id

**DT650**

Component

**Rear Differential**

Fluid

**PETRO CANADA TRAXON SYNTHETIC 75W90 (3 mls)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0127163</b>	PCA0103234	PCA0080944
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>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>281</b>	196	178
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>4</b>	4	1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>53</b>	49	13
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>2</b>	1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<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>	NONE	NONE

**CONTAMINATION**

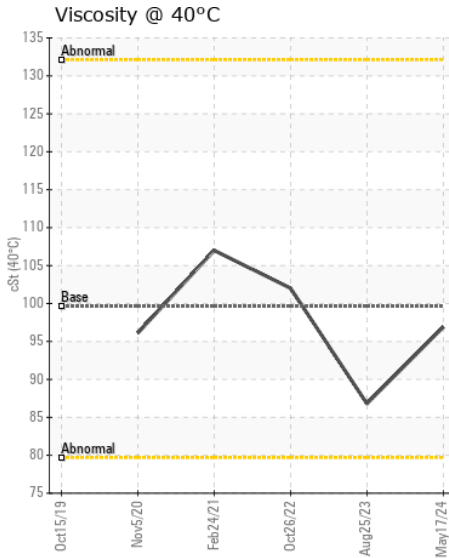
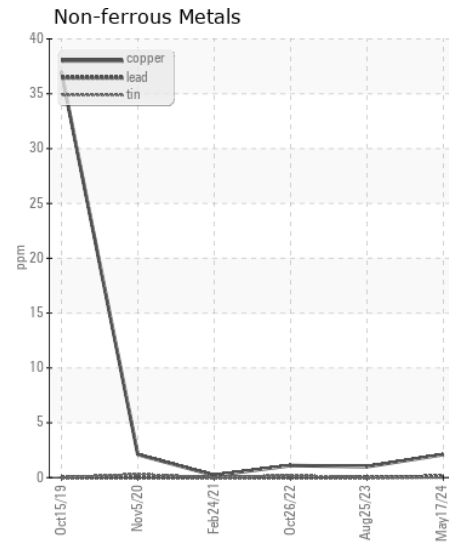
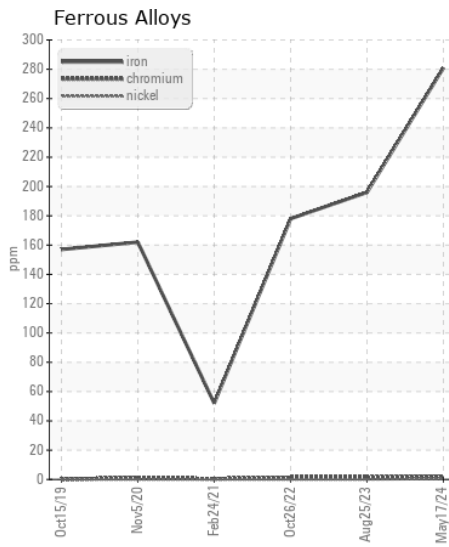
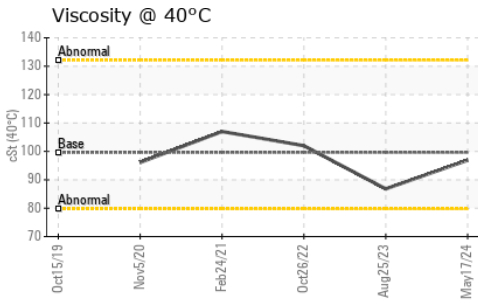
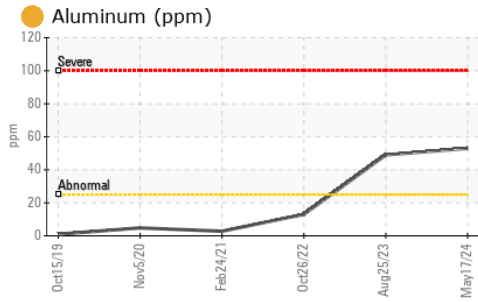
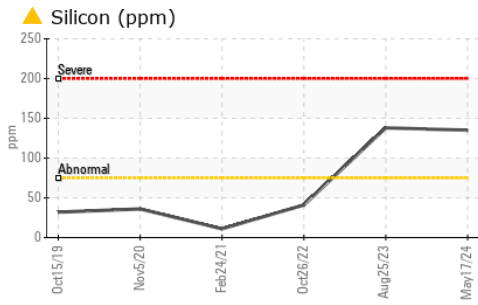
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 135</b>	▲ 138	41
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	13	3
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>	▲ MODER	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>8</b>	11	4
Boron	ppm	ASTM D5185m	328	<b>206</b>	250	236
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>17</b>	18	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	3	4
Magnesium	ppm	ASTM D5185m	1	<b>182</b>	181	2
Calcium	ppm	ASTM D5185m	7	<b>247</b>	265	9
Phosphorus	ppm	ASTM D5185m	1145	<b>1273</b>	1363	1369
Zinc	ppm	ASTM D5185m	3	<b>263</b>	267	5
Sulfur	ppm	ASTM D5185m	17909	<b>21400</b>	23490	27789
Visc @ 40°C	cSt	ASTM D445	99.6	<b>96.9</b>	86.8	102



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0127163  
**Lab Number** : 06189838  
**Unique Number** : 11046590  
**Test Package** : FLEET

**Received** : 23 May 2024  
**Tested** : 29 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

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)