



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

Machine Id  
**TC203**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 10W (55 hrs)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment:  
Top Up Amount: )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0091032</b>	PCA0080007	PCA0076619
Sample Date		Client Info		<b>10 Mar 2023</b>	11 Nov 2022	18 Jul 2022
Machine Age	hrs	Client Info		<b>6620</b>	5969	5336
Oil Age	hrs	Client Info		<b>6620</b>	5969	5336
Filter Age	hrs	Client Info		<b>651</b>	633	627
Oil Changed		Client Info		<b>Oil Added</b>	Oil Added	Oil Added
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>3</b>	3	3
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>3</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
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**

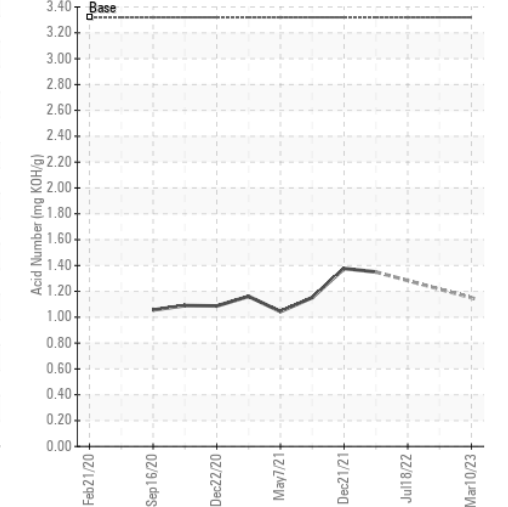
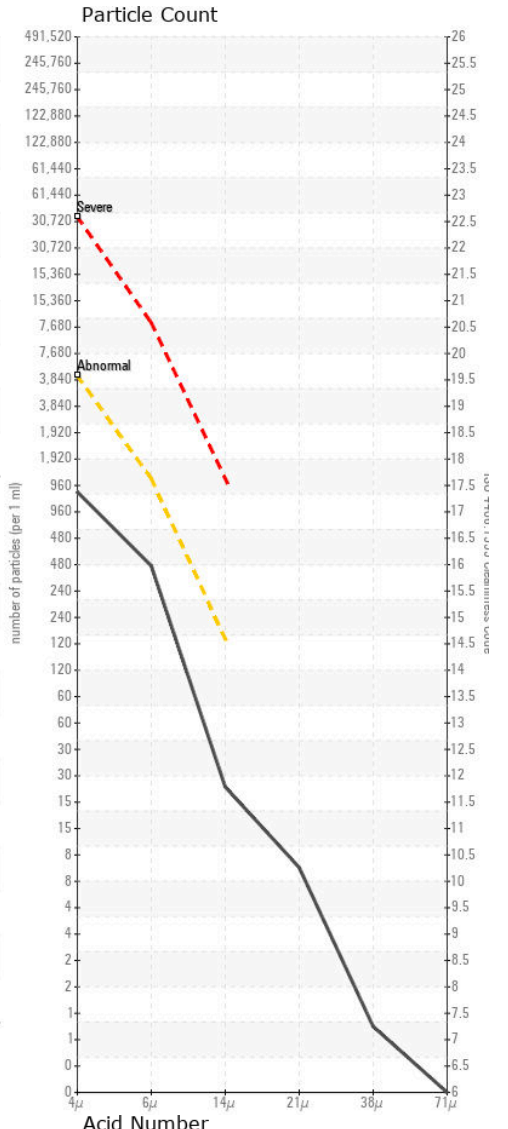
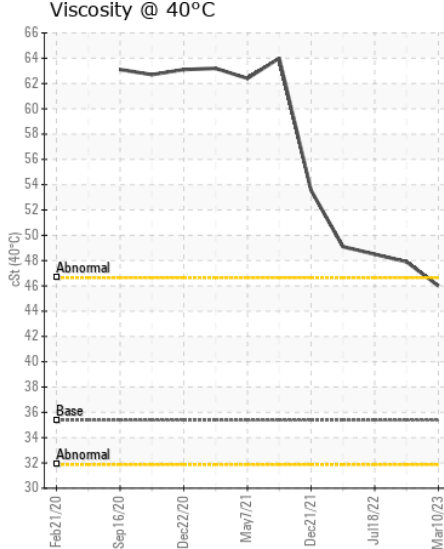
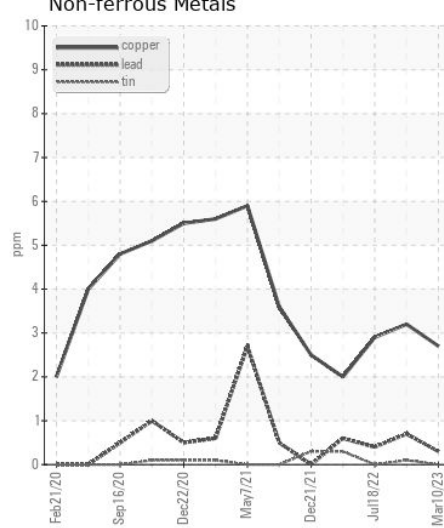
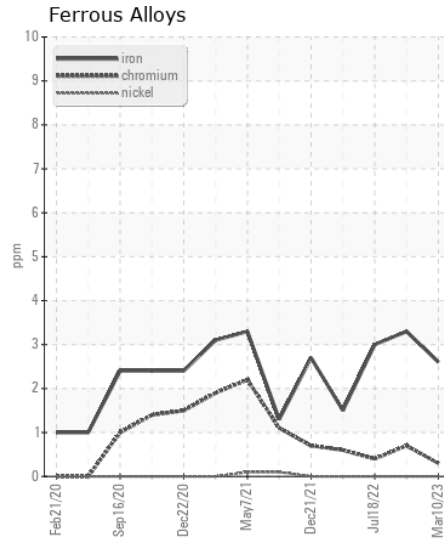
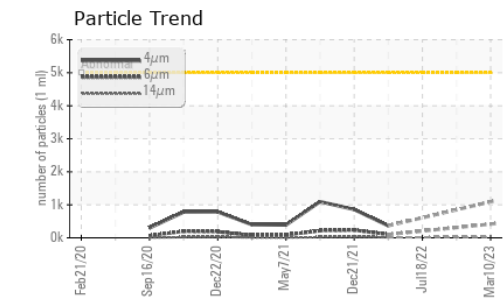
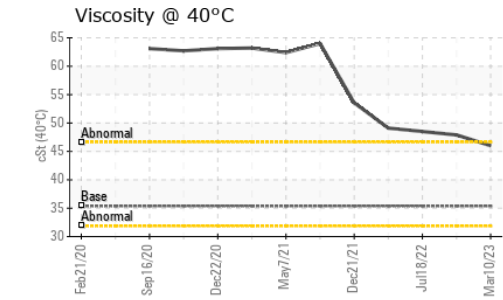
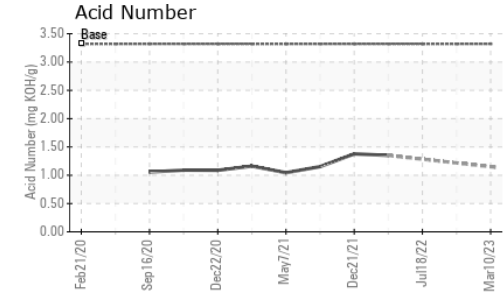
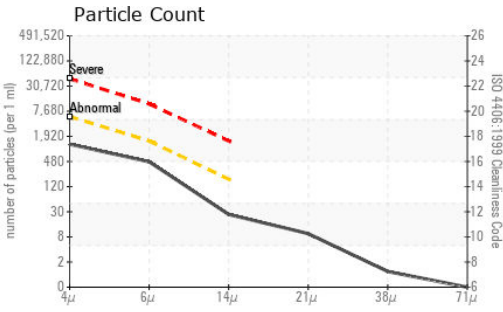
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>1093</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>415</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>23</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>8</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/16/12</b>	---	---
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	0
Boron	ppm	ASTM D5185m	1	<b>11</b>	14	17
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1	<b>6</b>	6	7
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1	<b>57</b>	54	61
Calcium	ppm	ASTM D5185m	2864	<b>2680</b>	2549	2862
Phosphorus	ppm	ASTM D5185m	987	<b>812</b>	852	1031
Zinc	ppm	ASTM D5185m	1162	<b>1043</b>	1042	1210
Sulfur	ppm	ASTM D5185m	3713	<b>3357</b>	3667	4537
Acid Number (AN)	mg KOH/g	ASTM D8045	3.32	<b>1.15</b>	---	---
Visc @ 40°C	cSt	ASTM D445	35.38	<b>46.0</b>	47.9	48.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0091032 **Received** : 13 Mar 2023  
**Lab Number** : 05789629 **Tested** : 14 Mar 2023  
**Unique Number** : 10374300 **Diagnosed** : 14 Mar 2023 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: PrtCount )

**CR JACKSON - COLUMBIA**  
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 Contact: ROBERT HENDRIX  
 rhendrix@crjackson.com

Certificate L2367  
 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)