



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
TC203
Component
Transmission (Manual)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		PCA0091033	PCA0080006	PCA0076618
Sample Date		Client Info		08 Mar 2023	11 Nov 2022	18 Jul 2022
Machine Age	hrs	Client Info		6620	5969	5336
Oil Age	hrs	Client Info		6620	5969	5336
Filter Age	hrs	Client Info		651	633	627
Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated.

Iron	ppm	ASTM D5185m	>200	18	23	27
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
Lead	ppm	ASTM D5185m	>45	7	8	<1
Copper	ppm	ASTM D5185m	>225	▲ 494	▲ 596	▲ 592
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

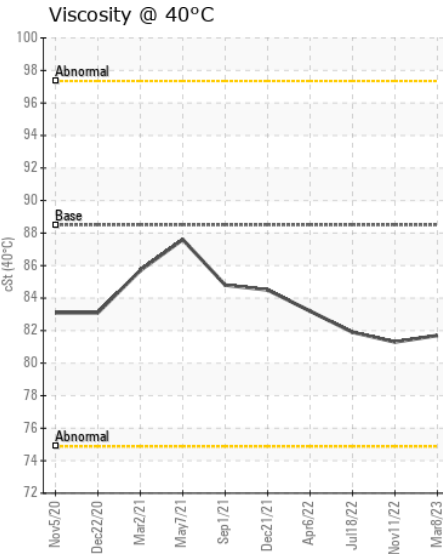
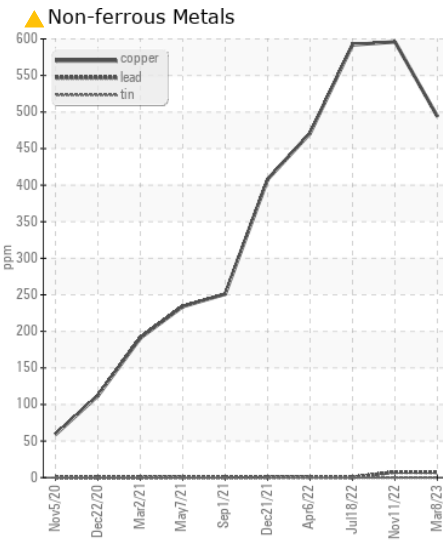
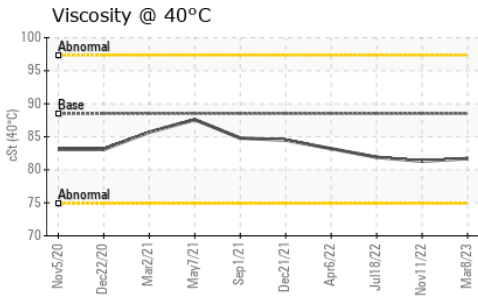
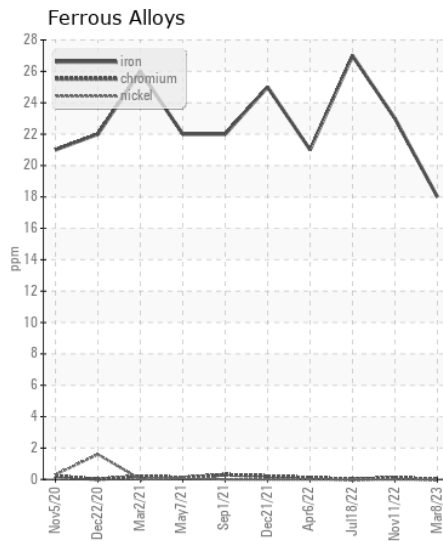
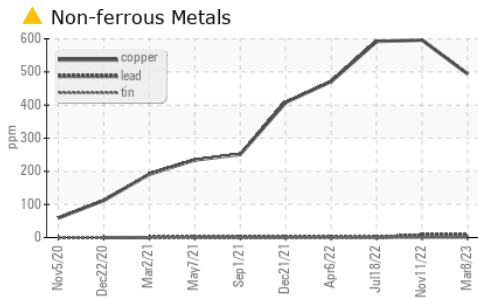
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	5	4	7
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		4	4	2
Boron	ppm	ASTM D5185m	2	5	6	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	3	3
Manganese	ppm	ASTM D5185m	9	1	<1	<1
Magnesium	ppm	ASTM D5185m	1	50	38	36
Calcium	ppm	ASTM D5185m	3131	2720	2752	3081
Phosphorus	ppm	ASTM D5185m	1194	900	948	1184
Zinc	ppm	ASTM D5185m	1281	971	971	1167
Sulfur	ppm	ASTM D5185m	3811	5340	6068	8499
Visc @ 40°C	cSt	ASTM D445	88.5	81.7	81.3	81.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0091033
Lab Number : 05790170
Unique Number : 10374841
Test Package : FLEET
Received : 13 Mar 2023
Tested : 14 Mar 2023
Diagnosed : 15 Mar 2023 - Don Baldrige

CR JACKSON - COLUMBIA
 100 INDEPENDENCE BLVD
 COLUMBIA, SC
 US 29202-6848
 Contact: ROBERT HENDRIX
 rhendrix@crjackson.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)

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