

Machine Id

## WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## 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: )

W	/E	Α	R
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The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated.

## CONTAMINATION

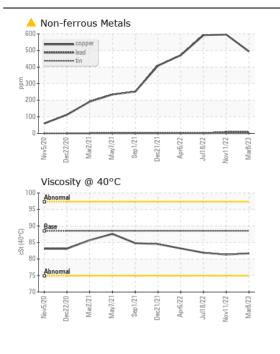
There is no indication of any contamination in the fluid.

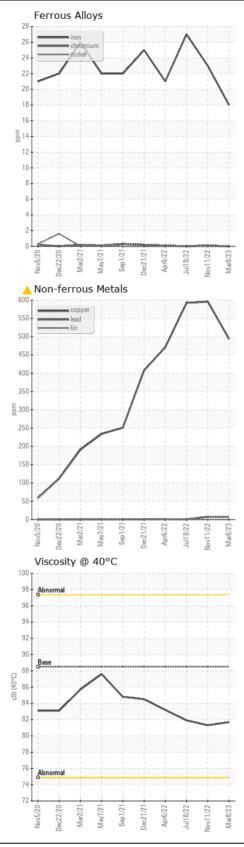
FLUID	CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number	00101	Client Info		PCA0091033	PCA0080006	PCA0076618
Sample Number		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
0	1115	Client Info		Oil Added	Oil Added	Oil Added
Oil Changed						
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	<b>4</b> 94	▲ 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
Silicon						
Silicon	ppm	ASTM D5185m	>125	5	4	7
Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>125 >20	5 <1	4 0	7 2
Potassium Water	ppm	ASTM D5185m ASTM D5185m WC Method	>125 >20 >0.1	5 <1 NEG	4 0 NEG	7 2 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>125 >20 >0.1 NONE	5 <1 NEG NONE	4 0 NEG NONE	7 2 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>125 >20 >0.1 NONE NONE	5 <1 NEG NONE NONE	4 0 NEG NONE NONE	7 2 NEG NONE VLITE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>125 >20 >0.1 NONE NONE NONE	5 <1 NEG NONE NONE NONE	4 0 NEG NONE NONE NONE	7 2 NEG NONE VLITE NONE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>125 >20 >0.1 NONE NONE NONE NORML	5 <1 NEG NONE NONE NONE NORML	4 0 NEG NONE NONE NONE NORML	7 2 NEG NONE VLITE NONE NORML
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>125 >20 >0.1 NONE NONE NONE	5 <1 NEG NONE NONE NONE	4 0 NEG NONE NONE NONE	7 2 NEG NONE VLITE NONE
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>125 >20 >0.1 NONE NONE NORML NORML	5 <1 NEG NONE NONE NORE NORML NEG	4 0 NEG NONE NONE NORML NORML NEG	7 2 NEG NONE VLITE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>125 >20 >0.1 NONE NONE NORML NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG	4 0 NEG NONE NONE NORML NORML NEG	7 2 NEG NONE VLITE NONE NORML NORML NEG 2
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NORME NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG 4 5	4 0 NEG NONE NONE NORML NORML NEG 4	7 2 NEG NONE VLITE NORML NORML NEG 2 9
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NONE NORML NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0	4 0 NEG NONE NONE NONE NORML NORML NEG 4 6 0	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NORML NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3
Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NORME NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 1	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 <1	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NONE NORML >0.1 2 0 0 9 1	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 5 0 4 1	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 3 <1 38	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1 36
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NONE NORML NORML >0.1	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 5 0 4 1 50 2720	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 4 6 0 3 3 2 1	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1 36 3081
Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NORME NORML >0.1 2 0 0 9 1 3131 1194	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 5 0 4 1 50 2720 900	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 4 6 0 3 3 2752 948	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1 36 3081 1184
Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NONE NORML >0.1 2 0 0 0 9 1 3131 1194 1281	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 5 0 4 1 50 2720 900 971	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 4 6 0 3 3 2 1 38 2752 948 971	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1 36 3081 1184 1167
Potassium Water Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>125 >20 >0.1 NONE NORME NORML >0.1 2 0 0 9 1 3131 1194	5 <1 NEG NONE NONE NORML NORML NEG 4 5 0 4 5 0 4 1 50 2720 900	4 0 NEG NONE NONE NORML NORML NEG 4 6 0 3 4 6 0 3 3 2752 948	7 2 NEG NONE VLITE NORML NORML NEG 2 9 0 3 <1 36 3081 1184

Submitted By: CODY MITERKO





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

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.

: PCA0091033

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (803)750-1356

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

: 13 Mar 2023

: 14 Mar 2023

: 15 Mar 2023 - Don Baldridge

Certificate L2367

Laboratory

Sample No.

Lab Number : 05790170

Unique Number : 10374841

Test Package : FLEET

Submitted By: CODY MITERKO

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