



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



Machine Id  
**CAT 826C 9594 (S/N 87X01794)**

Component  
**Front Differential**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (50 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0078893</b>	PC0075684	PC0051433
Sample Date		Client Info		<b>28 Mar 2024</b>	27 Jun 2023	15 Nov 2021
Machine Age	hrs	Client Info		<b>26409</b>	25920	24586
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>9</b>	6	5
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>13	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>103	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	LIGHT
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE

**CONTAMINATION**

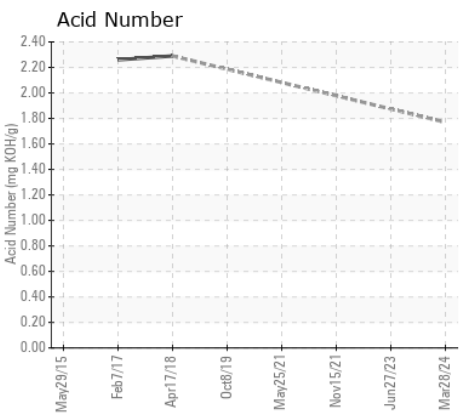
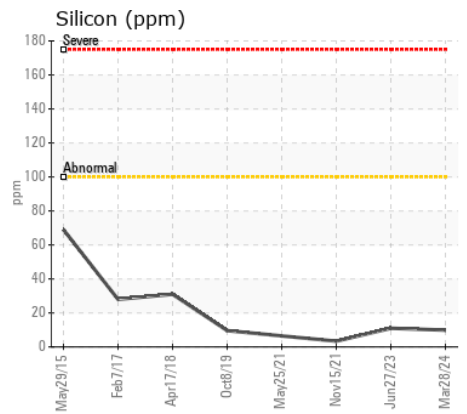
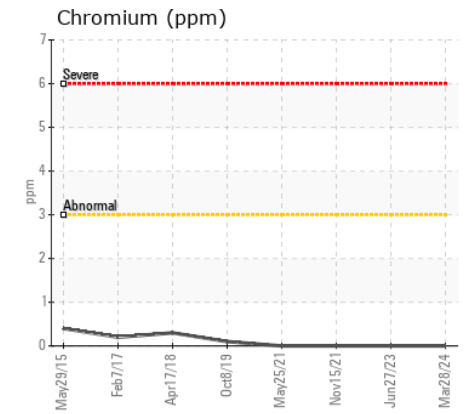
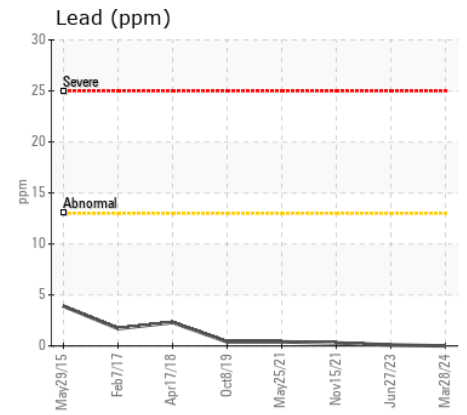
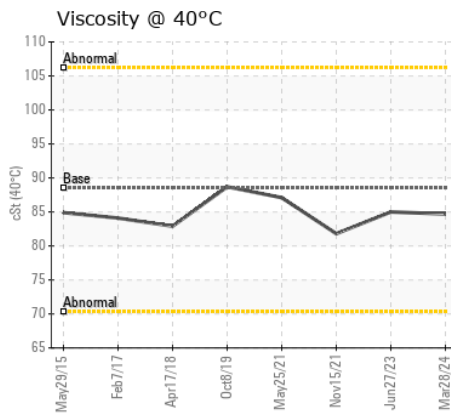
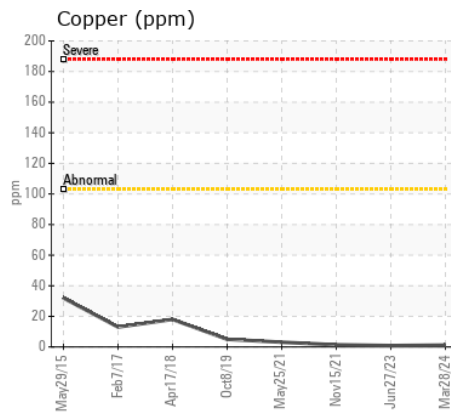
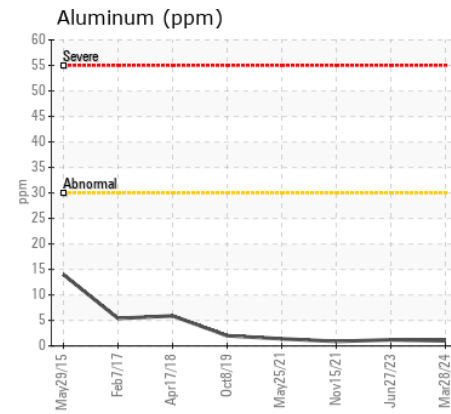
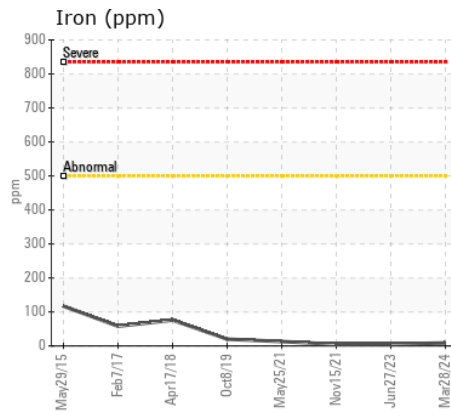
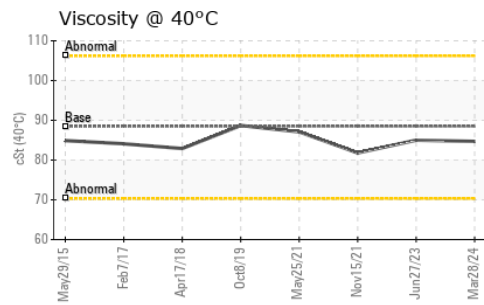
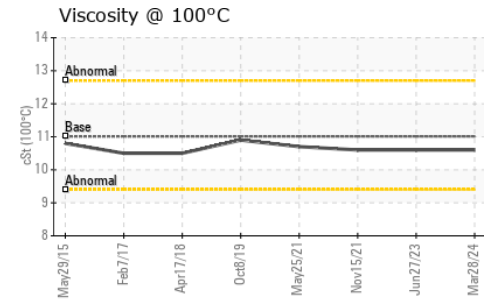
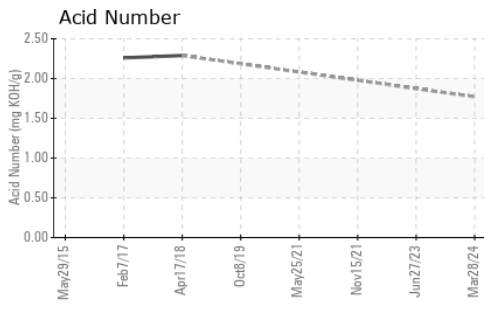
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>10</b>	11	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	9	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	1	<b>12</b>	12	13
Calcium	ppm	ASTM D5185(m)	3131	<b>3424</b>	3400	3049
Phosphorus	ppm	ASTM D5185(m)	1194	<b>914</b>	996	1080
Zinc	ppm	ASTM D5185(m)	1281	<b>1107</b>	1114	1242
Sulfur	ppm	ASTM D5185(m)	3811	<b>3093</b>	3156	3872
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.77</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	<b>84.7</b>	85.0	81.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.01	<b>10.6</b>	10.6	10.6
Viscosity Index (VI)	Scale	ASTM D2270*	110	<b>108</b>	108	113



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078893  
**Lab Number** : 02628960  
**Unique Number** : 5762092  
**Test Package** : MOB 2 ( Additional Tests: KV100, TAN Man, VI )

**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Wes Davis

**TRUCK AND EQUIPMENT SOLUTION**  
 2 BERTRAM INDUSTRIAL PKWY.  
 MIDHURST, ON  
 CA L9X 1L2  
 Contact: Julie Holden  
 parts@tesbarrie.com  
 T: (705)792-7620  
 F: (705)725-5425

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.