



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

Component
Rear 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		PC0078891	PC0075736	PC0051432
Sample Date		Client Info		28 Apr 2024	27 Jun 2023	15 Nov 2021
Machine Age	hrs	Client Info		26409	25920	24586
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	152	115	24
Chromium	ppm	ASTM D5185(m)	>3	0	<1	0
Nickel	ppm	ASTM D5185(m)	>3	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	2	2
Lead	ppm	ASTM D5185(m)	>13	0	<1	<1
Copper	ppm	ASTM D5185(m)	>103	9	5	2
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

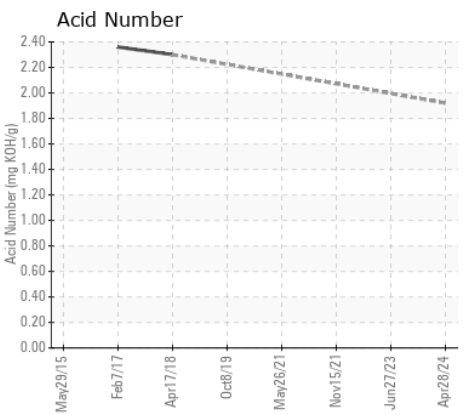
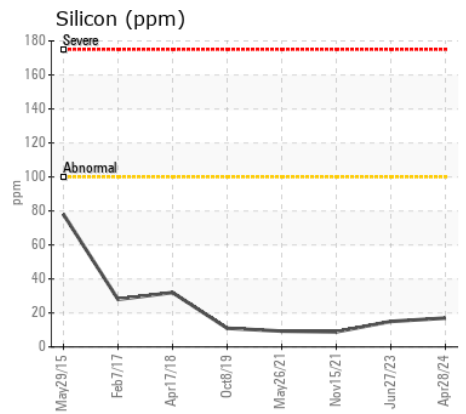
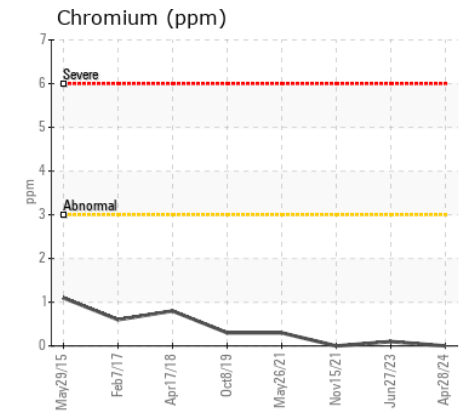
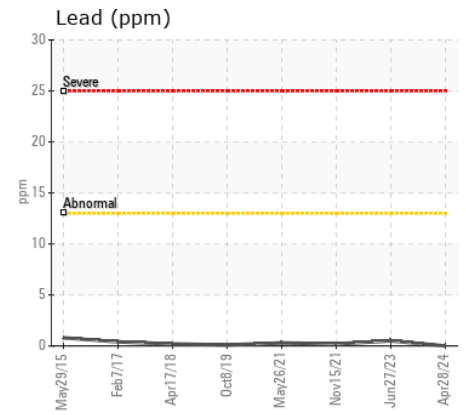
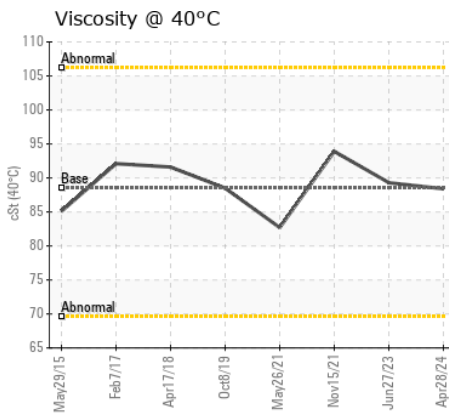
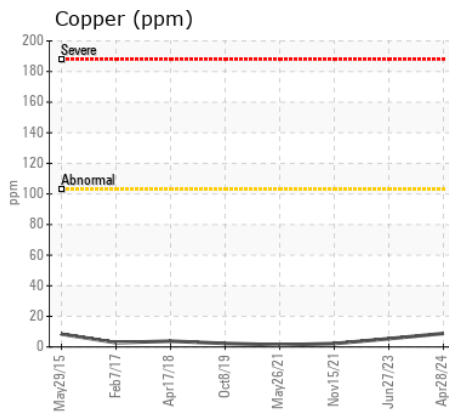
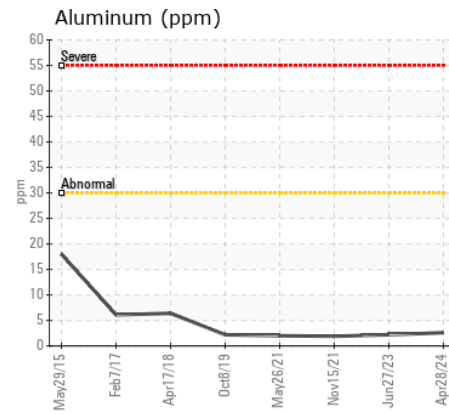
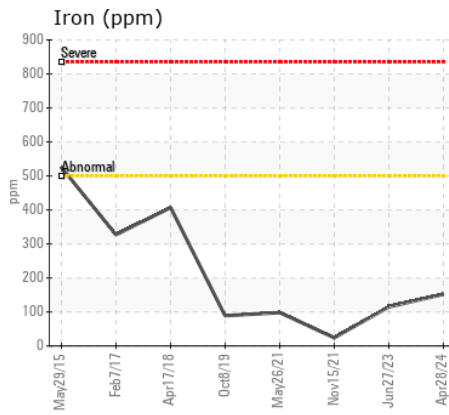
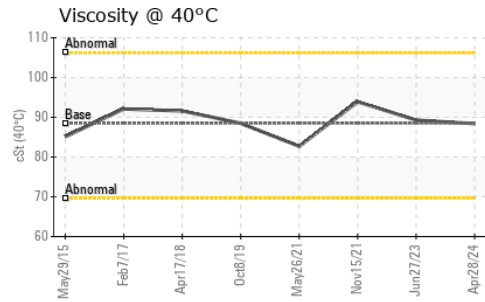
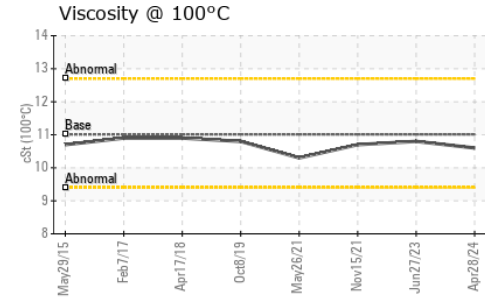
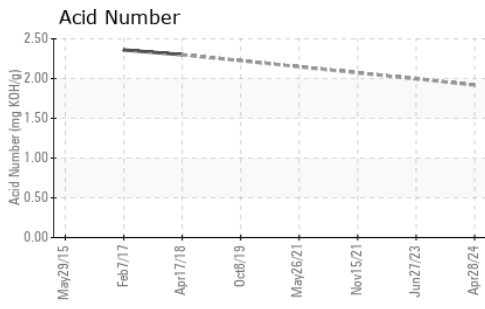
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	17	15	9
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	LIGHT	VLITE	LIGHT
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
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*	>.2	NEG	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)		1	<1	1
Boron	ppm	ASTM D5185(m)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	<1
Manganese	ppm	ASTM D5185(m)	9	1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	13	13	17
Calcium	ppm	ASTM D5185(m)	3131	3230	3280	3049
Phosphorus	ppm	ASTM D5185(m)	1194	941	1012	1080
Zinc	ppm	ASTM D5185(m)	1281	1073	1122	1237
Sulfur	ppm	ASTM D5185(m)	3811	3959	3925	5257
Acid Number (AN)	mg KOH/g	ASTM D974*		1.92	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	88.4	89.3	93.9
Visc @ 100°C	cSt	ASTM D7279(m)	11.01	10.6	10.8	10.7
Viscosity Index (VI)	Scale	ASTM D2270*	110	102	105	96



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078891
Lab Number : 02637737
Unique Number : 5786899
Test Package : MOB 2 (Additional Tests: KV100, TAN Man, VI)

Received : 27 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Kevin Marson

TRUCK AND EQUIPMENT SOLUTION
 2 BERTRAM INDUSTRIAL PKWY.
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 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.