



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
2126977
 Component
2 Differential
 Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0125019	PCA0114764	PCA0113257
Sample Date		Client Info		26 Apr 2024	10 Feb 2024	26 Nov 2023
Machine Age	mls	Client Info		186294	163575	142597
Oil Age	mls	Client Info		0	163575	142597
Filter Age	mls	Client Info		0	163575	142597
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 985	275	▲ 737
Chromium	ppm	ASTM D5185m	>10	8	3	8
Nickel	ppm	ASTM D5185m	>10	▲ 33	3	▲ 25
Titanium	ppm	ASTM D5185m		1	<1	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 13	2	13
Lead	ppm	ASTM D5185m	>25	<1	6	<1
Copper	ppm	ASTM D5185m	>100	14	38	15
Tin	ppm	ASTM D5185m	>10	0	2	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

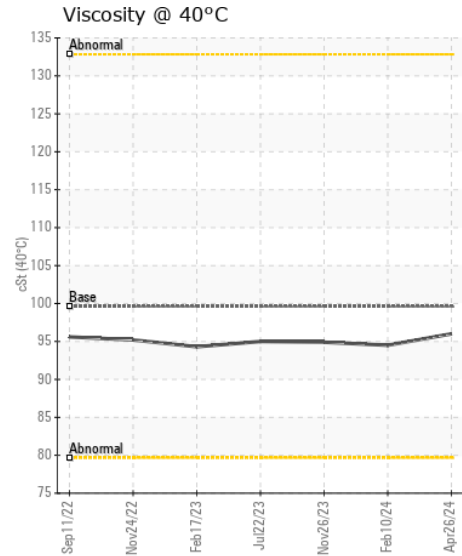
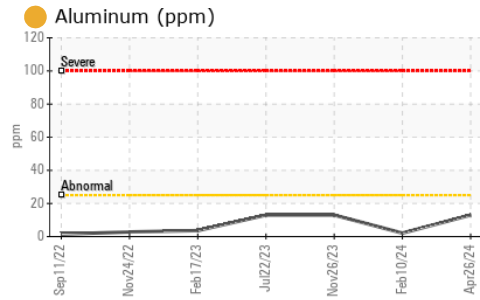
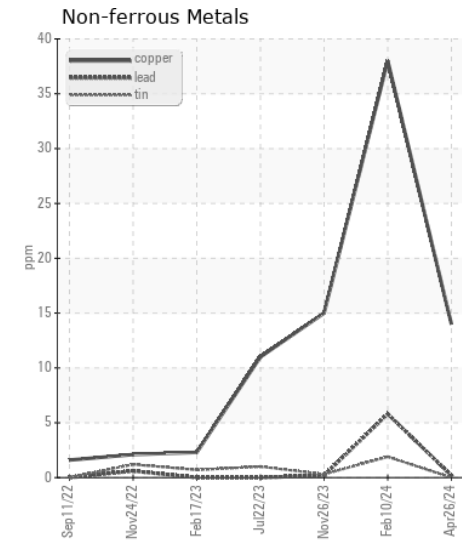
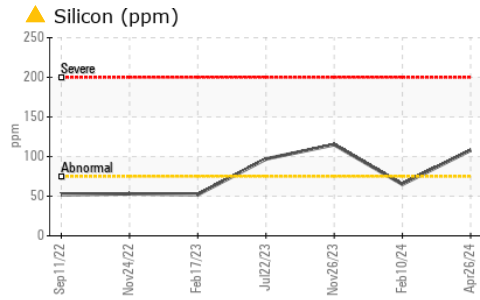
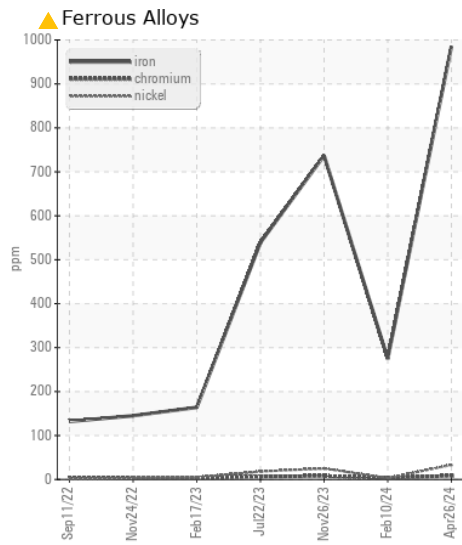
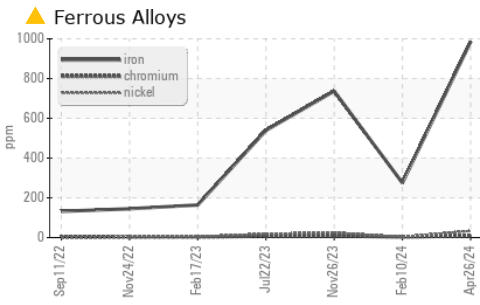
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 108	65	▲ 115
Potassium	ppm	ASTM D5185m	>20	9	2	11
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	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	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		12	9	5
Boron	ppm	ASTM D5185m	328	70	111	44
Barium	ppm	ASTM D5185m	1	1	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	4
Manganese	ppm	ASTM D5185m		25	14	23
Magnesium	ppm	ASTM D5185m	1	11	0	8
Calcium	ppm	ASTM D5185m	7	22	12	41
Phosphorus	ppm	ASTM D5185m	1145	1128	1075	1045
Zinc	ppm	ASTM D5185m	3	64	14	41
Sulfur	ppm	ASTM D5185m	17909	24126	27251	26286
Visc @ 40°C	cSt	ASTM D445	99.6	96.0	94.5	94.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0125019
Lab Number : 06220160
Unique Number : 11098357
Test Package : FLEET

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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)