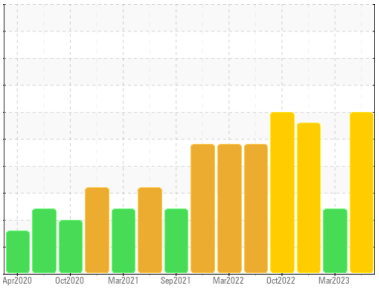
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

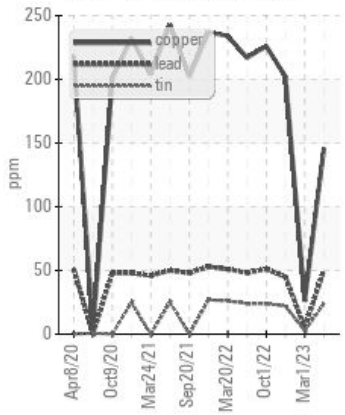


DIRT

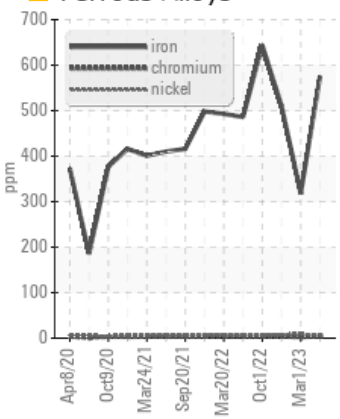
Machine Id
26510
Component
1 Differential
Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (25 QTS)

COMPONENT CONDITION SUMMARY

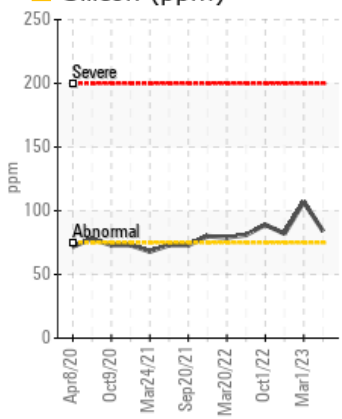
Non-ferrous Metals



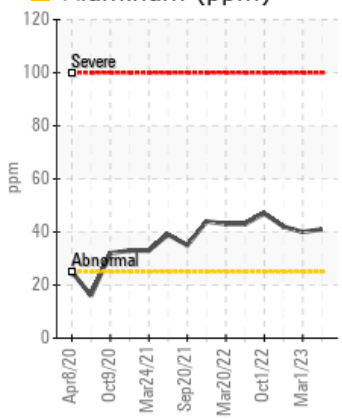
Ferrous Alloys



Silicon (ppm)



Aluminum (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ **575**	318	▲ 511
Aluminum	ppm	ASTM D5185m	>25	▲ **41**	▲ 40	▲ 42
Lead	ppm	ASTM D5185m	>25	▲ **50**	5	▲ 45
Copper	ppm	ASTM D5185m	>100	▲ **146**	26	▲ 202
Tin	ppm	ASTM D5185m	>10	▲ **24**	3	▲ 22
Silicon	ppm	ASTM D5185m	>75	▲ **84**	▲ 107	▲ 82
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE

Customer Id: PERGEODE
Sample No.: PCA0099319
Lab Number: 06031029
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

01 Mar 2023 Diag: Don Baldridge

DIRT

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

17 Dec 2022 Diag: Don Baldridge

DIRT

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.Bearing and/or bushing wear is indicated. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report

01 Oct 2022 Diag: Jonathan Hester

DIRT

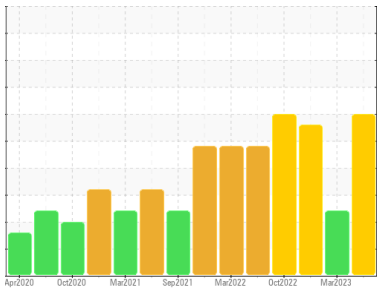
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
26510
Component
1 Differential
Fluid
PETRO CANADA TRAXON SYNTHETIC 75W90 (25 QTS)

DIAGNOSIS

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

Wear
Bearing and/or gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0099319**	PCA0094135	PCA0088185
Sample Date		Client Info		**15 May 2023**	01 Mar 2023	17 Dec 2022
Machine Age	mls	Client Info		**674166**	651265	630477
Oil Age	mls	Client Info		**674166**	20788	630477
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **575**	318	▲ 511
Chromium	ppm	ASTM D5185m	>10	**5**	2	4
Nickel	ppm	ASTM D5185m	>10	**6**	9	8
Titanium	ppm	ASTM D5185m		**1**	<1	1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **41**	▲ 40	▲ 42
Lead	ppm	ASTM D5185m	>25	▲ **50**	5	▲ 45
Copper	ppm	ASTM D5185m	>100	▲ **146**	26	▲ 202
Tin	ppm	ASTM D5185m	>10	▲ **24**	3	▲ 22
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

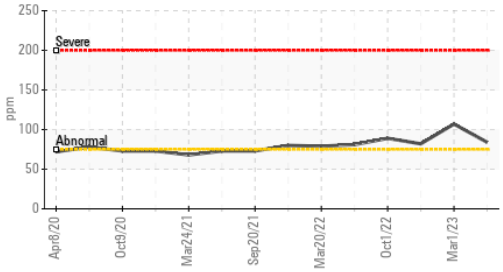
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	328	**124**	172	166
Barium	ppm	ASTM D5185m	1	**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**10**	10	11
Magnesium	ppm	ASTM D5185m	1	**4**	3	2
Calcium	ppm	ASTM D5185m	7	**14**	16	13
Phosphorus	ppm	ASTM D5185m	1145	**1525**	1489	1461
Zinc	ppm	ASTM D5185m	3	**60**	32	67
Sulfur	ppm	ASTM D5185m	17909	**23613**	26161	24875

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **84**	▲ 107	▲ 82
Sodium	ppm	ASTM D5185m		**13**	10	13
Potassium	ppm	ASTM D5185m	>20	**7**	8	15

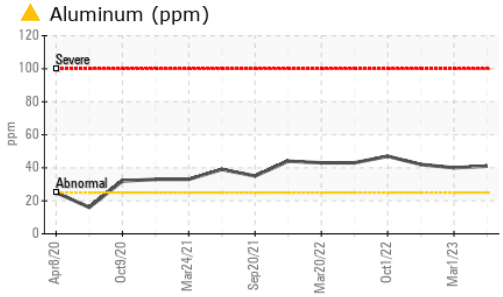
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	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	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

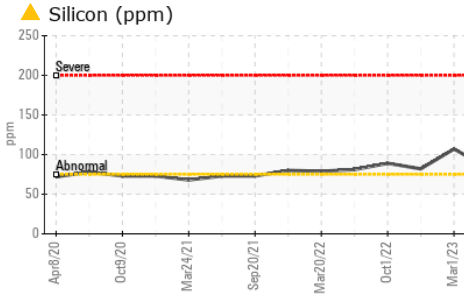
Silicon (ppm)



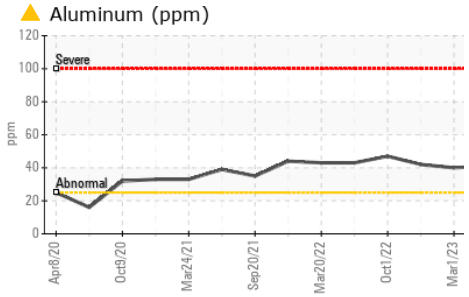
Aluminum (ppm)



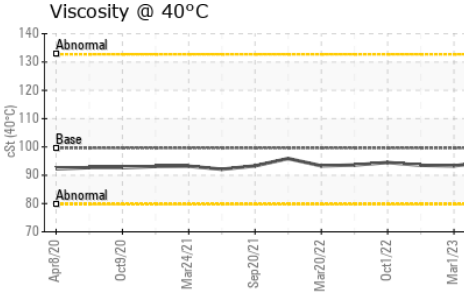
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C

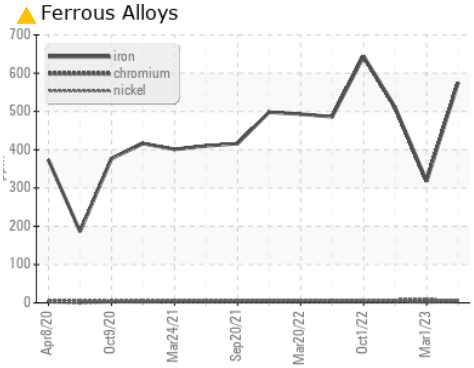


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	99.6	**94.7**	93.3	93.5

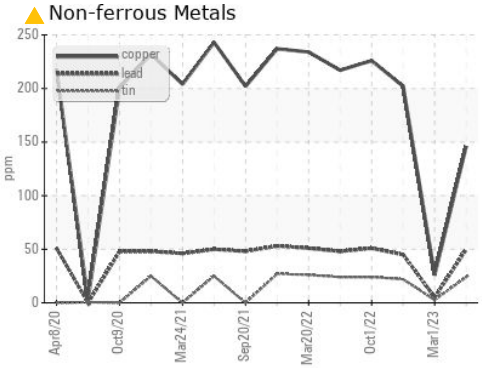
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

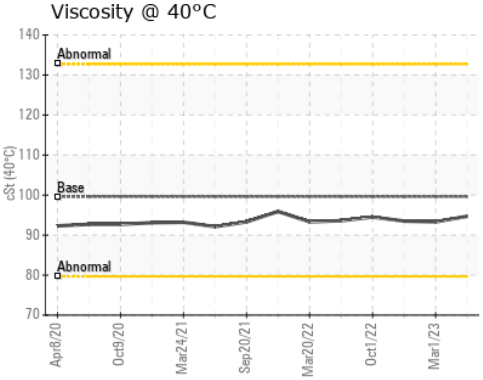
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0099319 **Received** : 11 Dec 2023
Lab Number : 06031029 **Diagnosed** : 14 Dec 2023
Unique Number : 10780820 **Diagnostician** : Don Baldridge
Test Package : FLEET

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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