



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PIERCE 0382
 Component
Transmission (Auto)
 Fluid
BG PRODUCTS Universal Synthetic Trans Oil 312 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0771936	WC0701506	WC0646969
Sample Date		Client Info		13 Feb 2023	07 Jun 2022	02 Dec 2021
Machine Age	hrs	Client Info		5253	4637	4092
Oil Age	hrs	Client Info		1637	1021	476
Filter Age	hrs	Client Info		1637	1021	476
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	43	33	28
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	<1	0
Aluminum	ppm	ASTM D5185m	>50	10	9	5
Lead	ppm	ASTM D5185m	>50	2	2	<1
Copper	ppm	ASTM D5185m	>225	27	10	7
Tin	ppm	ASTM D5185m	>10	2	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

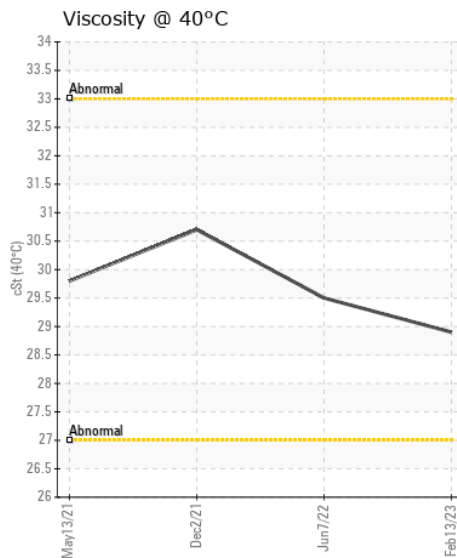
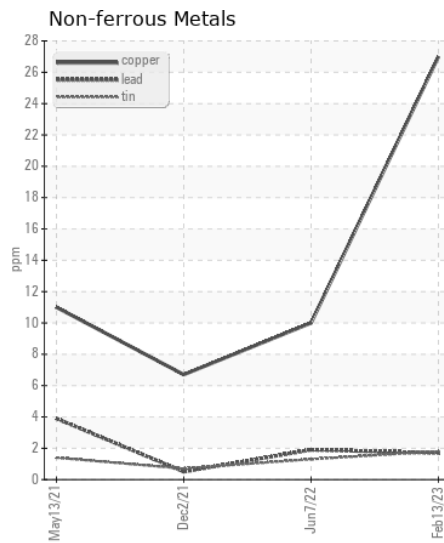
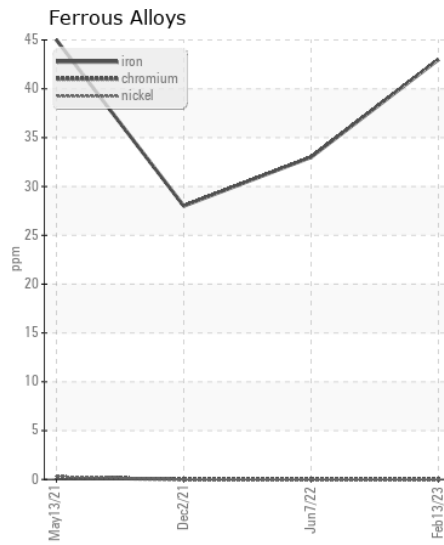
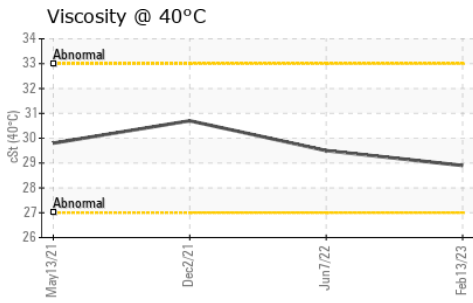
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	5	5	5
Potassium	ppm	ASTM D5185m	>20	0	6	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		10	16	8
Boron	ppm	ASTM D5185m		288	290	241
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	4	<1
Calcium	ppm	ASTM D5185m		237	241	248
Phosphorus	ppm	ASTM D5185m		538	587	636
Zinc	ppm	ASTM D5185m		10	5	0
Sulfur	ppm	ASTM D5185m		2250	2208	2179
Visc @ 40°C	cSt	ASTM D445		28.9	29.5	30.7



Certificate L2367

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

Sample No. : WC0771936

Lab Number : 05771025

Unique Number : 10345642

Test Package : CONST

Received : 17 Feb 2023

Tested : 20 Feb 2023

Diagnosed : 20 Feb 2023 - Angela Borella

TOWN OF CARY

420 JAMES JACKSON AVENUE

CARY, NC

US 27513

Contact: BRANDON PASINSKI

brandon.pasinski@townofcary.org

T: (919)469-4098

F: (919)380-6420

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)