



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PIERCE 0303
 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		WC0771932	WC0701503	WC0646963
Sample Date		Client Info		07 Feb 2023	31 May 2022	14 Dec 2021
Machine Age	hrs	Client Info		3987	3407	3048
Oil Age	hrs	Client Info		1419	837	480
Filter Age	hrs	Client Info		1419	837	480
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	44	27	23
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	7	4	4
Lead	ppm	ASTM D5185m	>50	1	<1	1
Copper	ppm	ASTM D5185m	>225	22	12	8
Tin	ppm	ASTM D5185m	>10	1	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

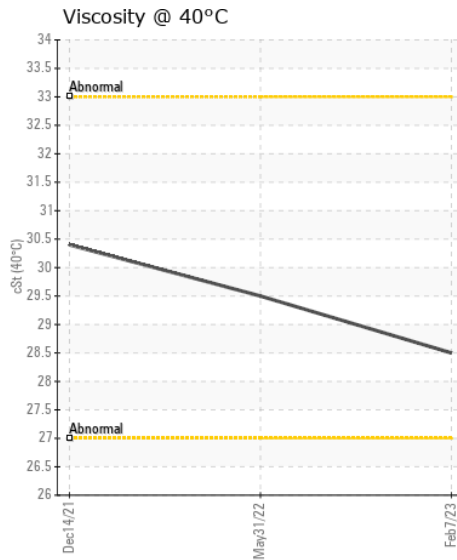
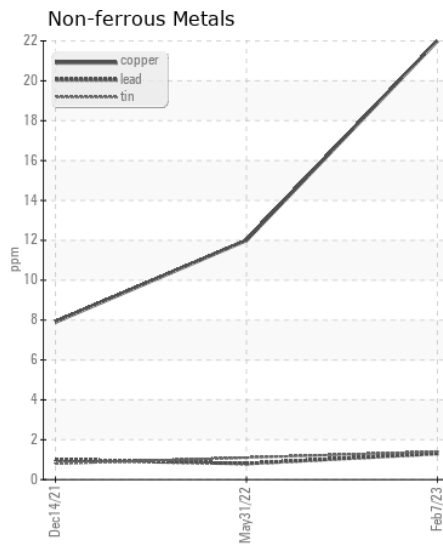
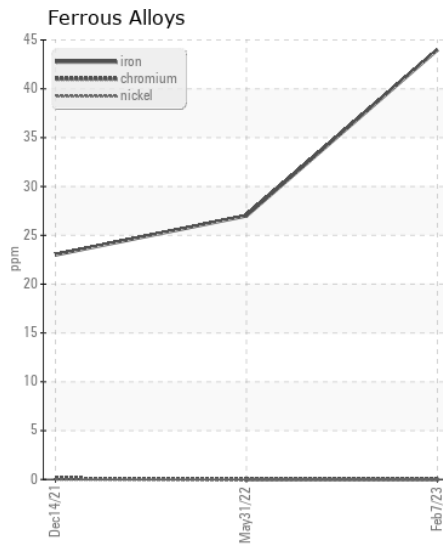
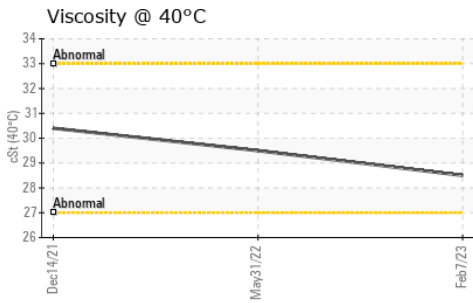
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	5	4	5
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		8	6	8
Boron	ppm	ASTM D5185m		287	249	286
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	2	2
Calcium	ppm	ASTM D5185m		235	248	253
Phosphorus	ppm	ASTM D5185m		530	591	629
Zinc	ppm	ASTM D5185m		8	5	0
Sulfur	ppm	ASTM D5185m		2254	2418	2107
Visc @ 40°C	cSt	ASTM D445		28.5	29.5	30.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0771932
Lab Number : 05771024
Unique Number : 10345641
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)