



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**PIERCE 0081**  
Component  
**Transmission (Auto)**  
Fluid  
**BG PRODUCTS Universal Synthetic Trans Oil 312 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0804014</b>	WC0708760	WC0657414
Sample Date		Client Info		<b>17 Apr 2023</b>	31 Aug 2022	20 Jan 2022
Machine Age	hrs	Client Info		<b>6505</b>	5890	5583
Oil Age	hrs	Client Info		<b>1366</b>	841	444
Filter Age	hrs	Client Info		<b>1366</b>	841	444
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>55</b>	43	30
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>50	<b>11</b>	8	6
Lead	ppm	ASTM D5185m	>50	<b>0</b>	4	4
Copper	ppm	ASTM D5185m	>225	<b>20</b>	15	10
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

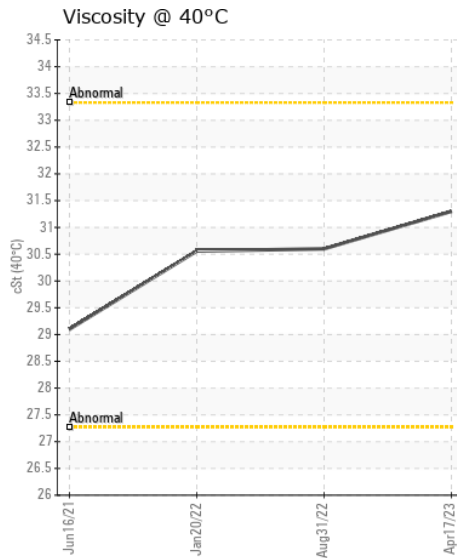
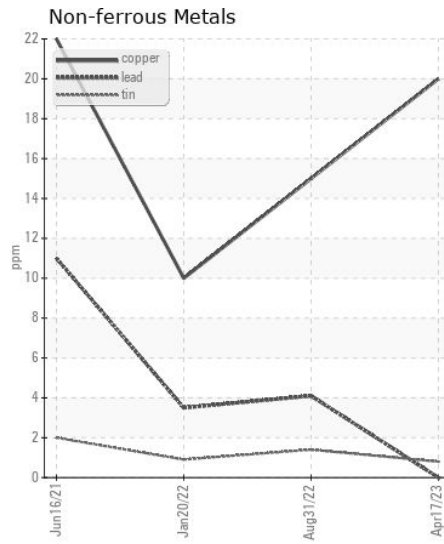
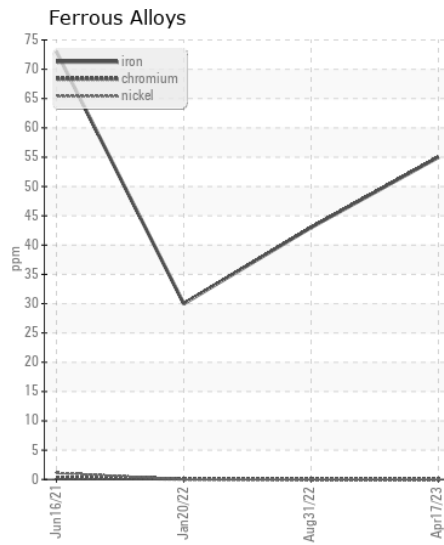
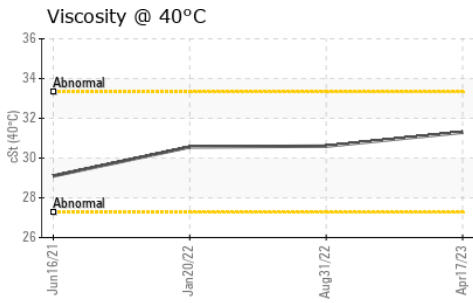
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>6</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	17
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>8</b>	6	5
Boron	ppm	ASTM D5185m		<b>273</b>	290	274
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	4	33
Calcium	ppm	ASTM D5185m		<b>226</b>	250	255
Phosphorus	ppm	ASTM D5185m		<b>620</b>	614	590
Zinc	ppm	ASTM D5185m		<b>2</b>	2	31
Sulfur	ppm	ASTM D5185m		<b>2753</b>	2248	1747
Visc @ 40°C	cSt	ASTM D445		<b>31.3</b>	30.6	30.56



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0804014  
**Lab Number** : 05837004  
**Unique Number** : 10455807  
**Test Package** : CONST

**Received** : 03 May 2023  
**Tested** : 04 May 2023  
**Diagnosed** : 05 May 2023 - Sean Felton

**TOWN OF CARY**  
 420 JAMES JACKSON AVENUE  
 CARY, NC  
 US 27513

Contact: BRANDON PASINSKI  
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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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