



# OIL ANALYSIS REPORT

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

Machine Id  
**PIERCE 2767**  
 Component  
**Transmission (Auto)**  
 Fluid  
**BG PRODUCTS Universal Synthetic Trans Oil 312 (--- QTS)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		<b>WC0830465</b>	WC0708756	WC0610940
Sample Date		Client Info		<b>17 Aug 2023</b>	10 Oct 2022	16 Aug 2021
Machine Age	hrs	Client Info		<b>9865</b>	8853	7554
Oil Age	hrs	Client Info		<b>2835</b>	1823	524
Filter Age	hrs	Client Info		<b>2835</b>	1823	524
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

Clutch and/or bushing/bearing wear is indicated.

Iron	ppm	ASTM D5185m	>160	<b>91</b>	52	22
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>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	1
Aluminum	ppm	ASTM D5185m	>50	<b>10</b>	6	2
Lead	ppm	ASTM D5185m	>50	<b>23</b>	6	3
Copper	ppm	ASTM D5185m	>225	<b>▲ 331</b>	81	18
Tin	ppm	ASTM D5185m	>10	<b>3</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

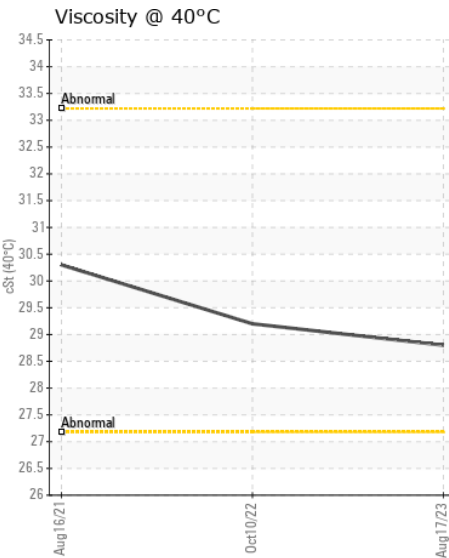
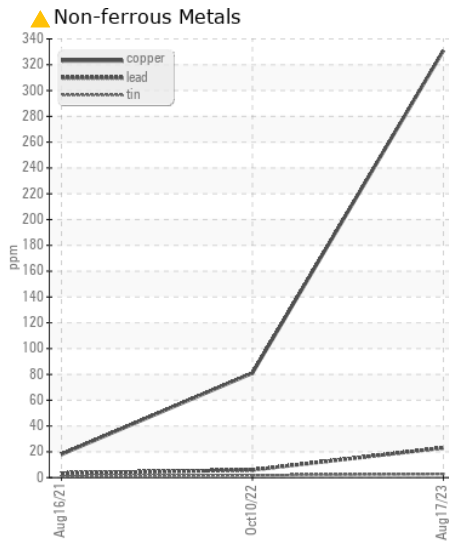
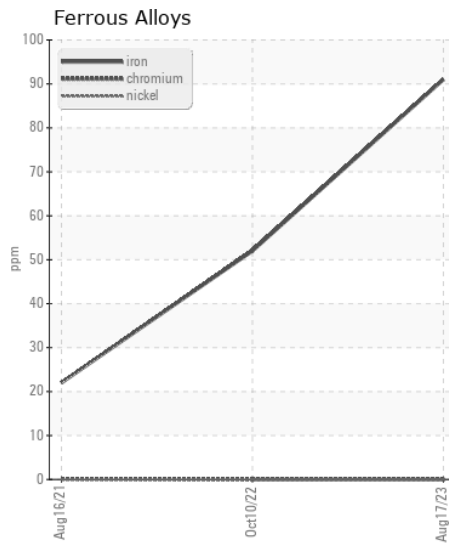
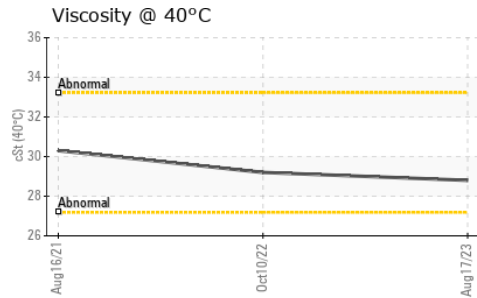
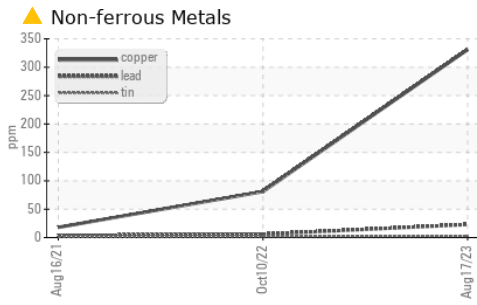
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	1	<1
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>6</b>	6	7
Boron	ppm	ASTM D5185m		<b>288</b>	263	330
Barium	ppm	ASTM D5185m		<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	4	2
Calcium	ppm	ASTM D5185m		<b>247</b>	239	254
Phosphorus	ppm	ASTM D5185m		<b>628</b>	582	648
Zinc	ppm	ASTM D5185m		<b>42</b>	16	0
Sulfur	ppm	ASTM D5185m		<b>2281</b>	2411	2049
Visc @ 40°C	cSt	ASTM D445		<b>28.8</b>	29.2	30.3



Certificate L2367

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

**Sample No.** : WC0830465

**Lab Number** : 05944308

**Unique Number** : 10634920

**Test Package** : CONST

**Received** : 06 Sep 2023

**Tested** : 07 Sep 2023

**Diagnosed** : 09 Sep 2023 - Don Baldrige

**TOWN OF CARY**  
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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)