



# OIL ANALYSIS REPORT

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

Machine Id  
**PIERCE 0552**  
 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>WC0804012</b>	WC0708751	WC0646966
Sample Date		Client Info		<b>12 Apr 2023</b>	05 Jul 2022	11 Jan 2022
Machine Age	hrs	Client Info		<b>3401</b>	2806	2428
Oil Age	hrs	Client Info		<b>595</b>	2806	2428
Filter Age	hrs	Client Info		<b>595</b>	839	461
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>41</b>	105	92
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>50	<b>11</b>	31	26
Lead	ppm	ASTM D5185m	>50	<b>5</b>	22	21
Copper	ppm	ASTM D5185m	>225	<b>16</b>	30	27
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	4
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

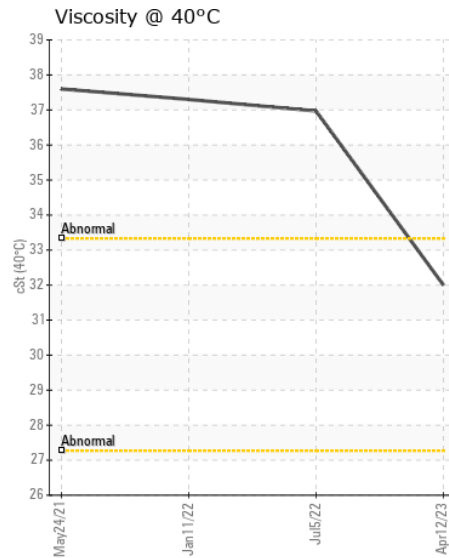
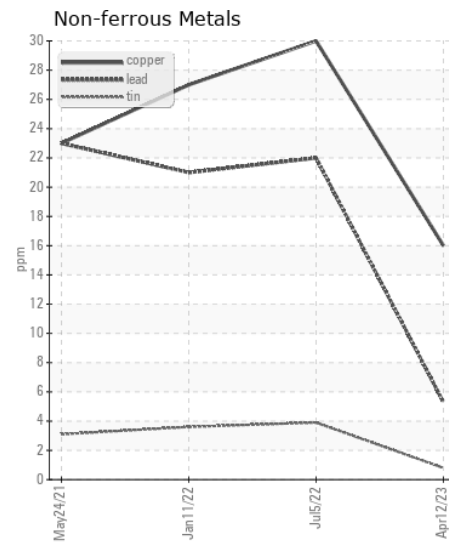
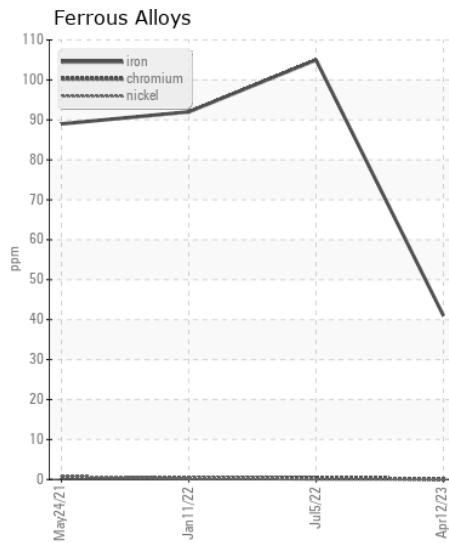
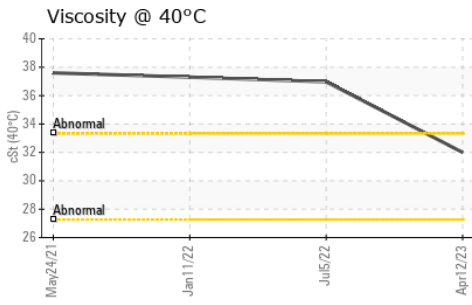
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	5	4
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>	12	12
Boron	ppm	ASTM D5185m		<b>262</b>	101	94
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>2</b>	7	2
Calcium	ppm	ASTM D5185m		<b>235</b>	113	100
Phosphorus	ppm	ASTM D5185m		<b>538</b>	305	302
Zinc	ppm	ASTM D5185m		<b>2</b>	37	30
Sulfur	ppm	ASTM D5185m		<b>1789</b>	626	495
Visc @ 40°C	cSt	ASTM D445		<b>32.0</b>	36.97	37.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0804012  
**Lab Number** : 05819246  
**Unique Number** : 10427329  
**Test Package** : CONST  
**Received** : 13 Apr 2023  
**Tested** : 18 Apr 2023  
**Diagnosed** : 18 Apr 2023 - Jonathan Hester

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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)