



# OIL ANALYSIS REPORT

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

Machine Id  
**PIERCE 2953**  
 Component  
**Transmission (Manual)**  
 Fluid  
**BG PRODUCTS Universal Synthetic Trans Oil 312 (32 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0830458</b>	WC0741897	WC0666077
Sample Date		Client Info		<b>15 Jun 2023</b>	03 Oct 2022	25 Feb 2022
Machine Age	hrs	Client Info		<b>10821</b>	10230	9608
Oil Age	hrs	Client Info		<b>892</b>	301	1003
Filter Age	hrs	Client Info		<b>892</b>	301	1003
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>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>41</b>	22	114
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	<1
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>17</b>	9	4
Lead	ppm	ASTM D5185m	>45	<b>35</b>	6	7
Copper	ppm	ASTM D5185m	>225	<b>119</b>	39	▲ 373
Tin	ppm	ASTM D5185m	>10	<b>4</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

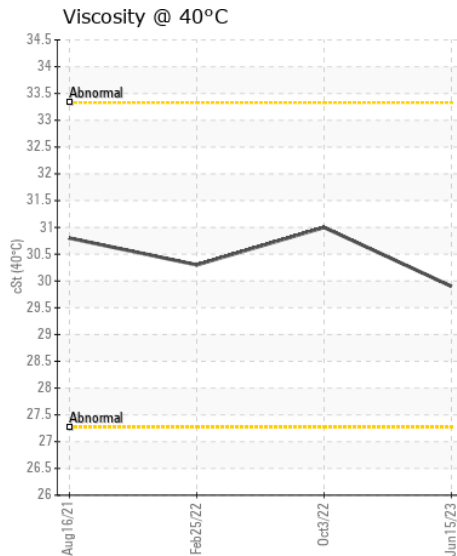
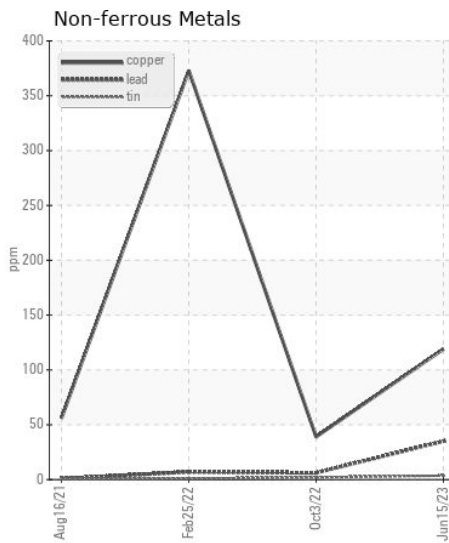
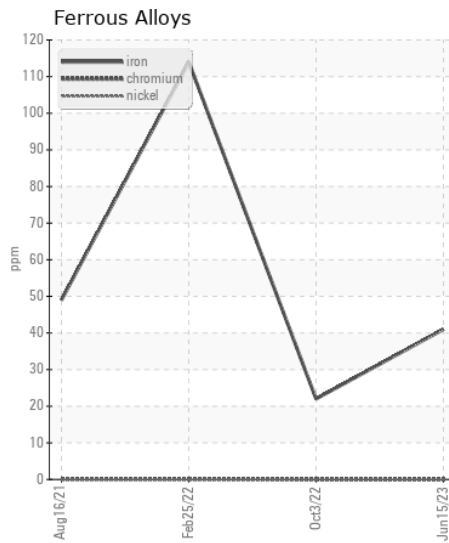
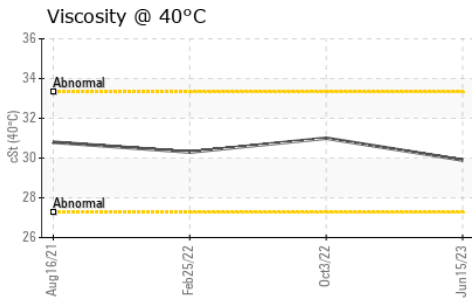
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	<b>8</b>	8	12
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	0
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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>20</b>	20	8
Boron	ppm	ASTM D5185m		<b>222</b>	198	297
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>11</b>	11	48
Calcium	ppm	ASTM D5185m		<b>219</b>	226	295
Phosphorus	ppm	ASTM D5185m		<b>524</b>	507	678
Zinc	ppm	ASTM D5185m		<b>40</b>	36	28
Sulfur	ppm	ASTM D5185m		<b>2369</b>	2030	2165
Visc @ 40°C	cSt	ASTM D445		<b>29.9</b>	31.0	30.3



Certificate L2367

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

**Sample No.** : WC0830458

**Lab Number** : 05895819

**Unique Number** : 10551629

**Test Package** : CONST

**Received** : 11 Jul 2023

**Tested** : 12 Jul 2023

**Diagnosed** : 13 Jul 2023 - Angela Borella

**TOWN OF CARY**

420 JAMES JACKSON AVENUE

CARY, NC

US 27513

Contact: BRANDON PASINSKI

brandon.pasinski@carync.gov

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)