



# OIL ANALYSIS REPORT

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

Machine Id  
**PIERCE 2952**  
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>WC0657408</b>	WC0637280	---
Sample Date		Client Info		<b>18 Mar 2022</b>	22 Nov 2021	---
Machine Age	hrs	Client Info		<b>7039</b>	6827	---
Oil Age	hrs	Client Info		<b>1324</b>	512	---
Filter Age	hrs	Client Info		<b>1324</b>	512	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>20</b>	16	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	4	---
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>225	<b>47</b>	40	---
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

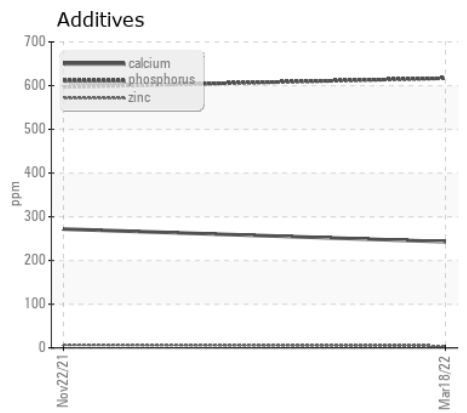
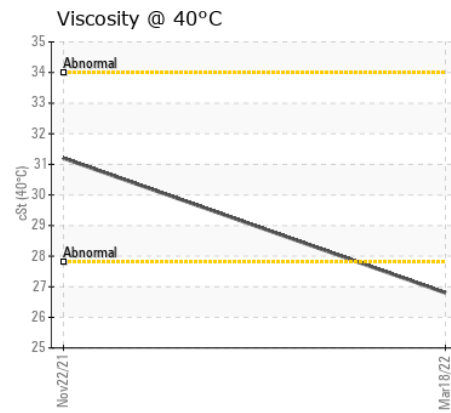
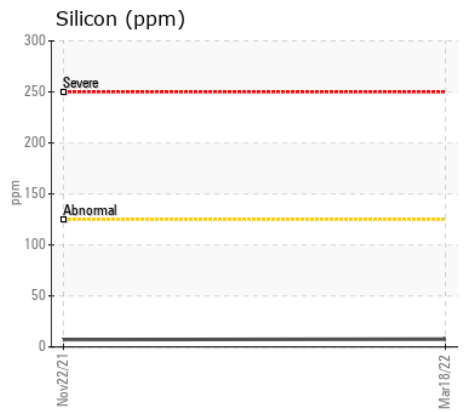
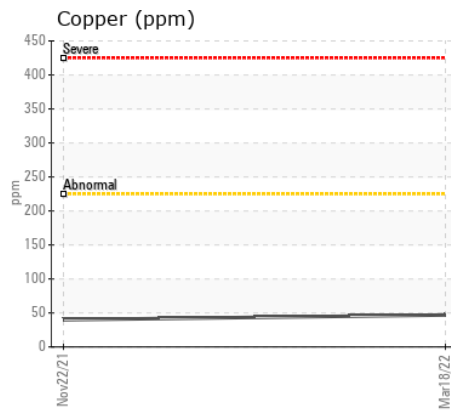
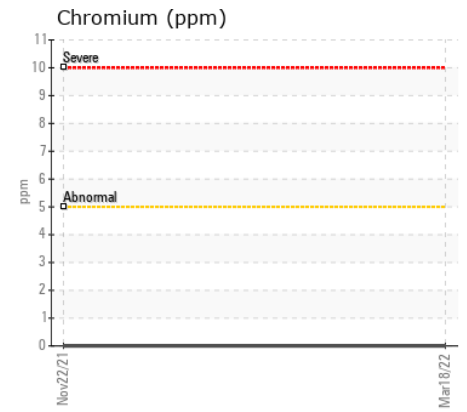
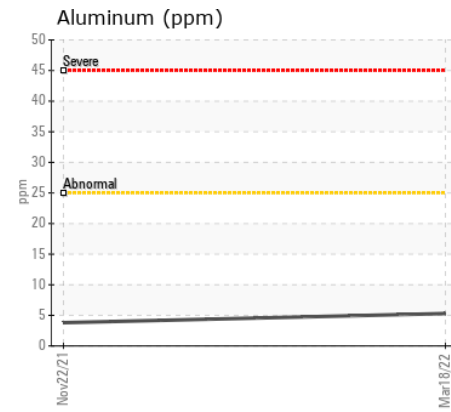
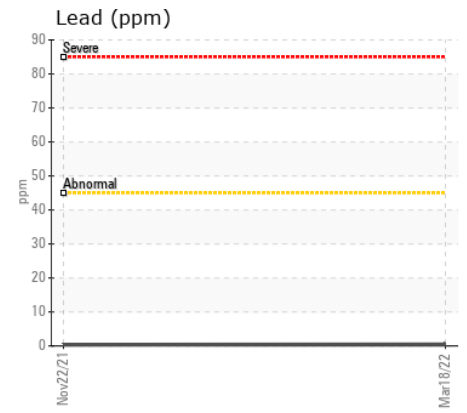
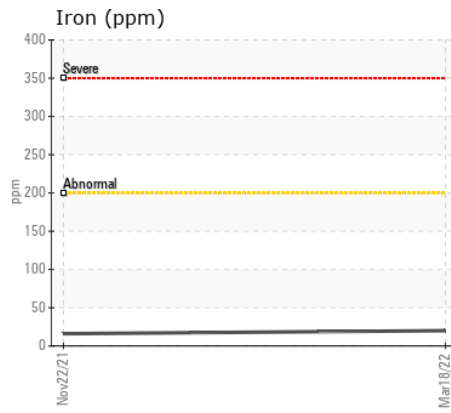
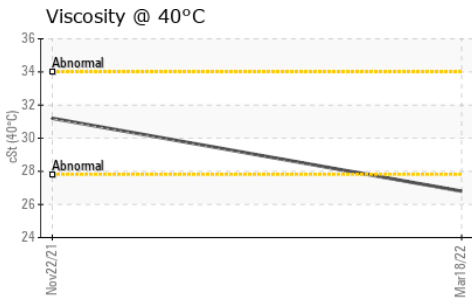
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	<b>8</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>8</b>	7	---
Boron	ppm	ASTM D5185m		<b>277</b>	321	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	6	---
Calcium	ppm	ASTM D5185m		<b>243</b>	272	---
Phosphorus	ppm	ASTM D5185m		<b>617</b>	597	---
Zinc	ppm	ASTM D5185m		<b>5</b>	7	---
Sulfur	ppm	ASTM D5185m		<b>2071</b>	2164	---
Visc @ 40°C	cSt	ASTM D445		<b>26.8</b>	31.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0657408 **Received** : 24 Mar 2022  
**Lab Number** : 05501686 **Tested** : 26 Mar 2022  
**Unique Number** : 9905923 **Diagnosed** : 26 Mar 2022 - Don Baldrige  
**Test Package** : MOBCE

**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)