



# OIL ANALYSIS REPORT

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



Machine Id  
**BELL B30E B93A631EP03010083**  
 Component  
**Transmission**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>BE0009084</b>	---	---
Sample Date		Client Info		<b>26 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2029</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>11</b>	---	---
Iron	ppm	ASTM D5185m	>200	<b>88</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>50	<b>16</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>6</b>	---	---
Copper	ppm	ASTM D5185m	>200	<b>7</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

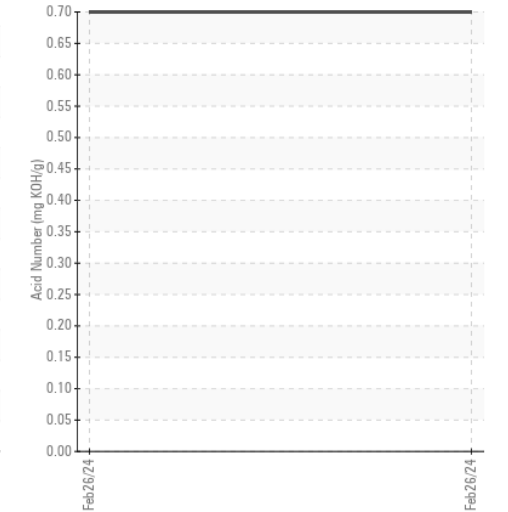
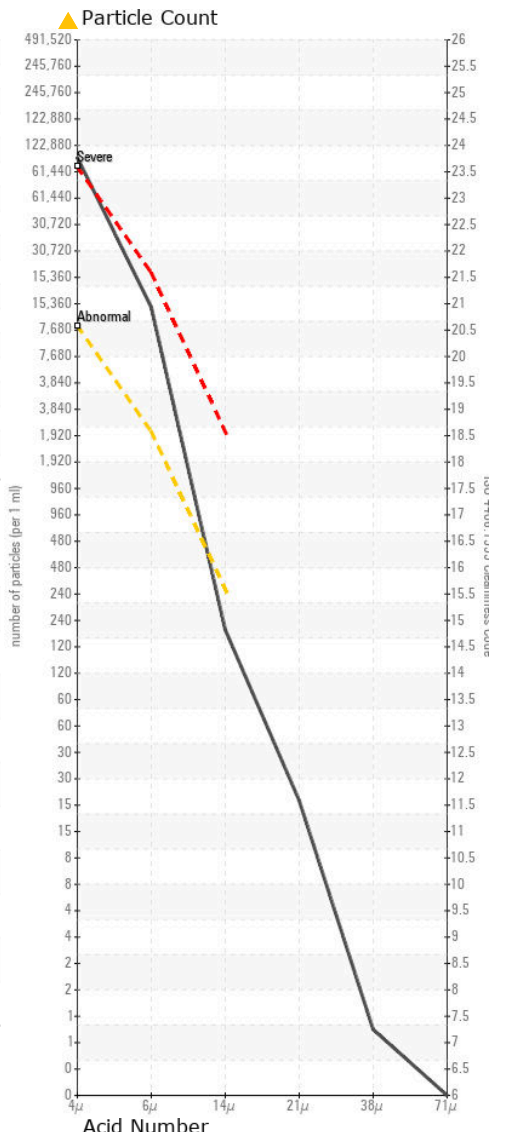
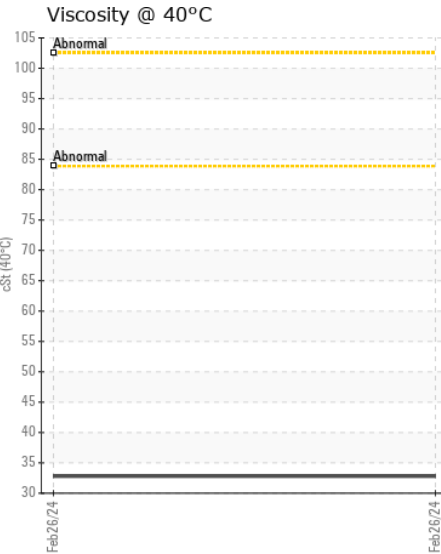
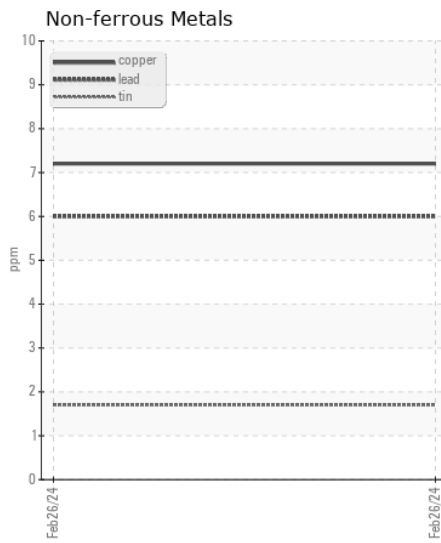
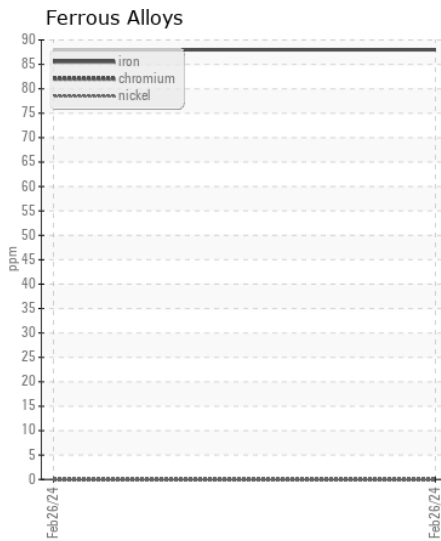
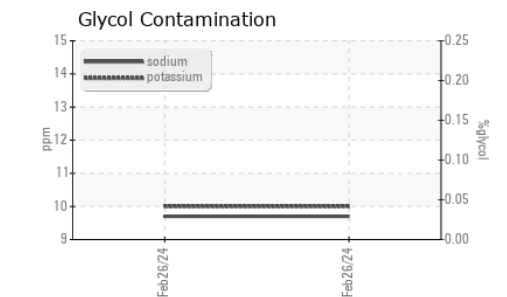
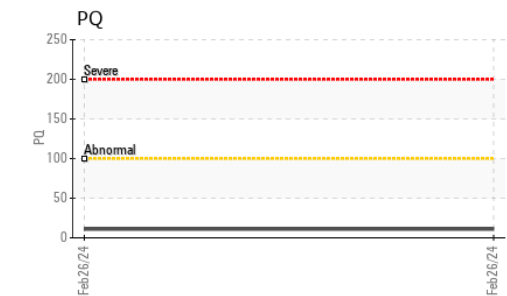
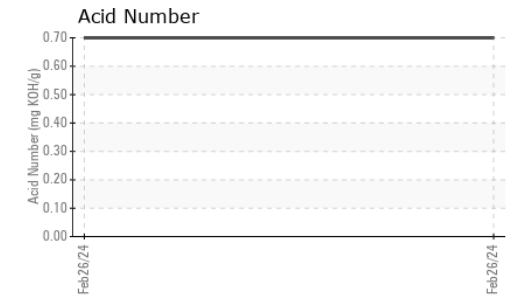
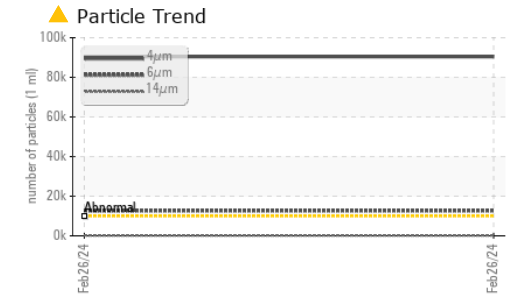
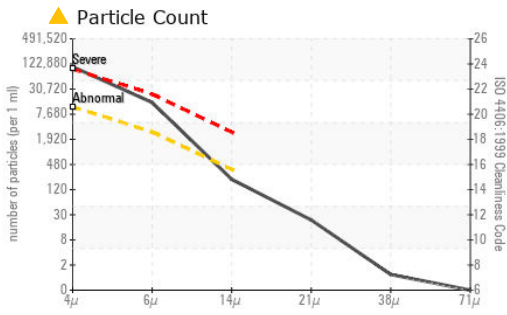
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185m	>50	<b>8</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Particles >4µm		ASTM D7647	>10000	<b>▲ 90430</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>▲ 12723</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>187</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>20</b>	---	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 24/21/15</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>10</b>	---	---
Boron	ppm	ASTM D5185m		<b>137</b>	---	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	---	---
Calcium	ppm	ASTM D5185m		<b>163</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>408</b>	---	---
Zinc	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2758</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.70</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>32.8</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : BE0009084 **Received** : 01 Mar 2024  
**Lab Number** : 06105933 **Tested** : 05 Mar 2024  
**Unique Number** : 10909430 **Diagnosed** : 05 Mar 2024 - Jonathan Hester  
**Test Package** : MOBCE ( Additional Tests: Glycol )

**National Equipment Dealers LLC NE**  
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 Lexington, NC  
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 Contact: Steven Gawthrop  
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 F:

Certificate L2367  
 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)