

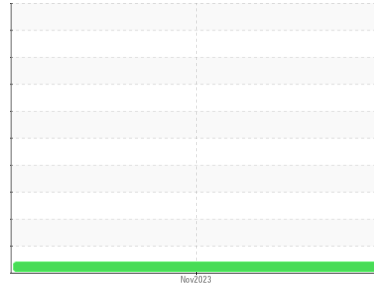


# PROBLEM SUMMARY



Machine Id  
**BELL B30E B93A631EL03010030**  
 Component  
**Transfer Case**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## Sample Rating Trend

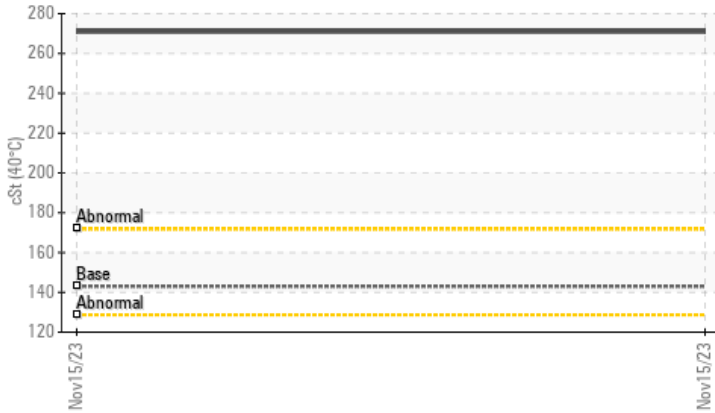


## VISCOSITY



### COMPONENT CONDITION SUMMARY

#### ▲ Viscosity @ 40°C



### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Visc @ 40°C	cSt	ASTM D445	143	▲ 271	---	---

Customer Id: BEFOU005  
 Sample No.: BE0007050  
 Lab Number: 06014278  
 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



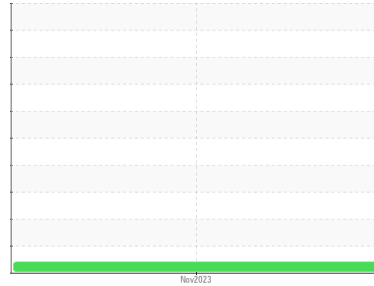
# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id  
**BELL B30E B93A631EL03010030**  
 Component  
**Transfer Case**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The oil viscosity is higher than normal.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>BE0007050</b>	---	---
Sample Date	Client Info		<b>15 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>2018</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.201	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>45	<b>14</b>	---	---
Iron	ppm	ASTM D5185m	>75	<b>53</b>	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m	>150	<b>0</b>	---
Copper	ppm	ASTM D5185m	>30	<b>29</b>	---
Tin	ppm	ASTM D5185m	>5	<b>2</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	<b>68</b>	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>2</b>	---
Magnesium	ppm	ASTM D5185m	12	<b>13</b>	---
Calcium	ppm	ASTM D5185m	150	<b>91</b>	---
Phosphorus	ppm	ASTM D5185m	1650	<b>773</b>	---
Zinc	ppm	ASTM D5185m	125	<b>60</b>	---
Sulfur	ppm	ASTM D5185m	22500	<b>24307</b>	---

## CONTAMINANTS

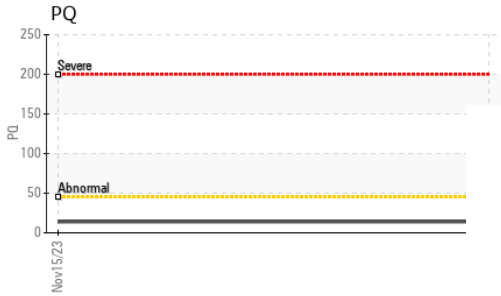
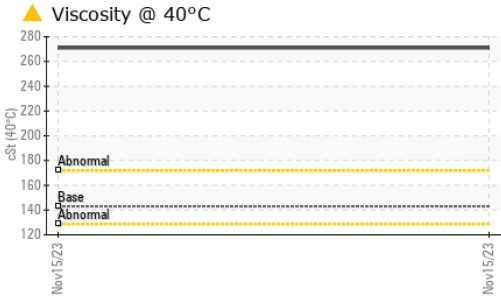
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<b>2</b>	---
Sodium	ppm	ASTM D5185m	>170	<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</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	>0.201	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---



# OIL ANALYSIS REPORT

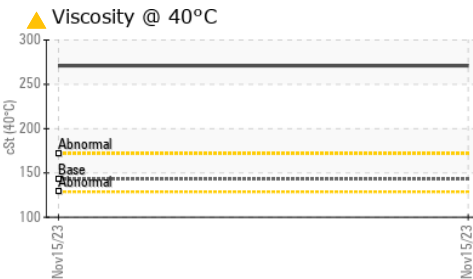
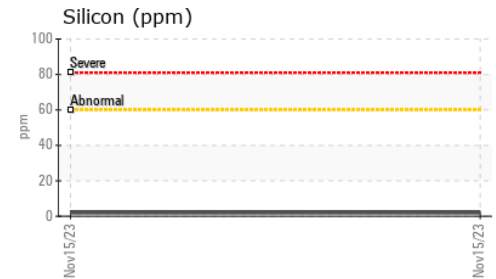
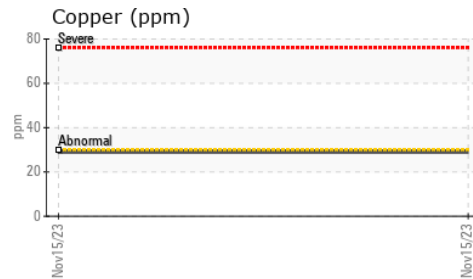
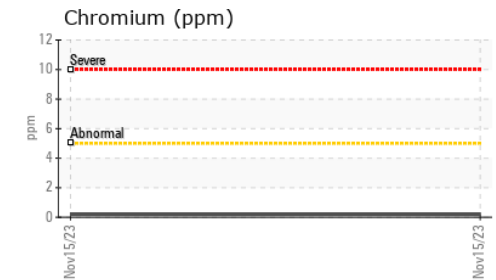
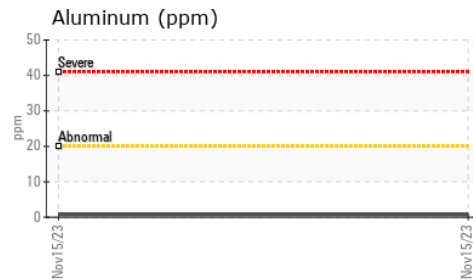
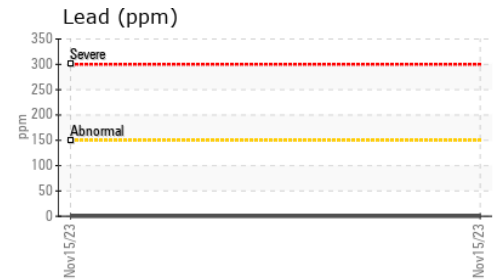
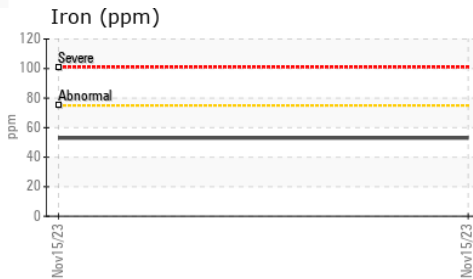


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	▲ 271	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : BE0007050 **Received** : 21 Nov 2023  
**Lab Number** : 06014278 **Diagnosed** : 24 Nov 2023  
**Unique Number** : 10753422 **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE

**Four Seasons Equipment Inc.**  
 8111 Mills Road  
 Houston, TX  
 US 77064  
 Contact: Vaughan Phillips  
 vphillips@fourseasons-equip.com  
 T: (800)234-5007  
 F:

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)