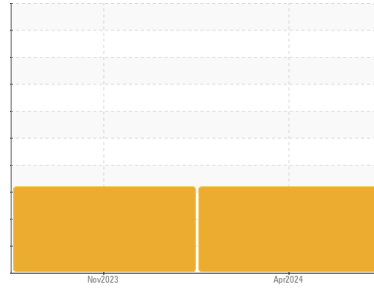


# PROBLEM SUMMARY

Area  
**ULTRA COOLANT**  
 Machine Id  
**INGERSOLL RAND CBV683199 - FIRST SPEAR LLC**  
 Component  
**Compressor**

Sample Rating Trend

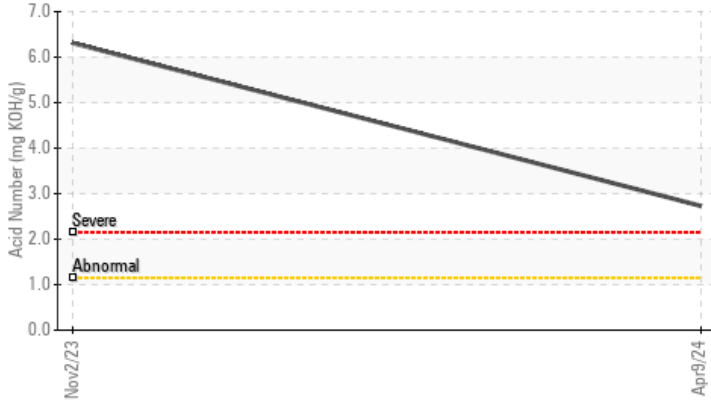


**DEGRADATION**



**COMPONENT CONDITION SUMMARY**

**▲ Acid Number**



**RECOMMENDATION**

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**PROBLEMATIC TEST RESULTS**

Sample Status		<b>SEVERE</b>	SEVERE	---
Acid Number (AN)	mg KOH/g ASTM D8045	<b>▲ 2.73</b>	▲ 6.31	---

**Customer Id:** UCJOHSAI  
**Sample No.:** JHF0000192  
**Lab Number:** 06154545  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS

### DEGRADATION



#### 02 Nov 2023 Diag: Angela Borella

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit. TAN level indicates possible presence of varnish.

view report



Area

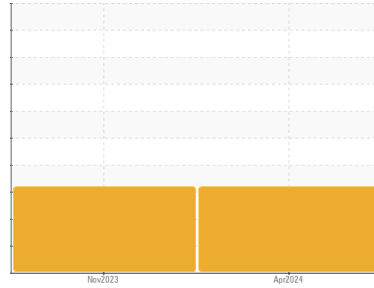
## ULTRA COOLANT

Machine Id

## INGERSOLL RAND CBV683199 - FIRST SPEAR LLC

Component

### Compressor



### DIAGNOSIS

**▲ Recommendation**

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Oil and filter 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 AN level is above the recommended limit. TAN level indicates possible presence of varnish.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>JHF0000192</b>	UCH05999129	---
Sample Date	Client Info		<b>09 Apr 2024</b>	02 Nov 2023	---
Machine Age	hrs	Client Info	<b>3753</b>	3064	---
Oil Age	hrs	Client Info	<b>689</b>	3064	---
Oil Changed	Client Info		<b>Not Changed</b>	Changed	---
Sample Status			<b>SEVERE</b>	SEVERE	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>12</b>	39	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	2	---
Lead	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >50	<b>8</b>	13	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>2</b>	20	---
Barium	ppm	ASTM D5185m 500	<b>715</b>	426	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>2</b>	7	---
Magnesium	ppm	ASTM D5185m 0	<b>2</b>	6	---
Calcium	ppm	ASTM D5185m 0	<b>10</b>	23	---
Phosphorus	ppm	ASTM D5185m 20	<b>0</b>	16	---
Zinc	ppm	ASTM D5185m 0	<b>1006</b>	567	---
Sulfur	ppm	ASTM D5185m 200	<b>266</b>	247	---

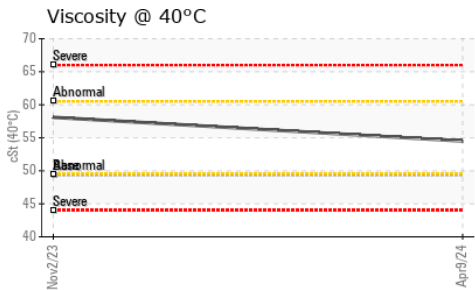
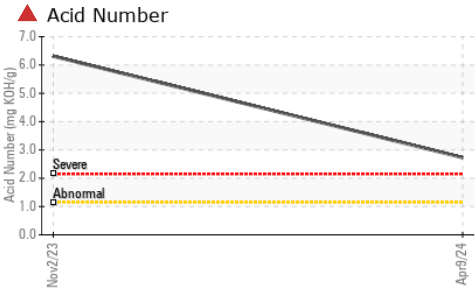
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	2	---
Sodium	ppm	ASTM D5185m	<b>28</b>	100	---
Potassium	ppm	ASTM D5185m >20	<b>5</b>	16	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>▲ 2.73</b>	▲ 6.31	---

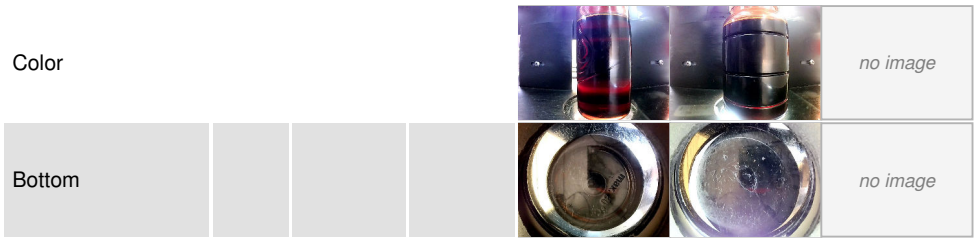
# OIL ANALYSIS REPORT



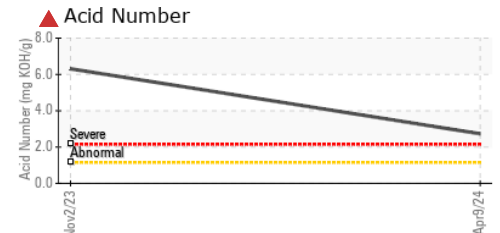
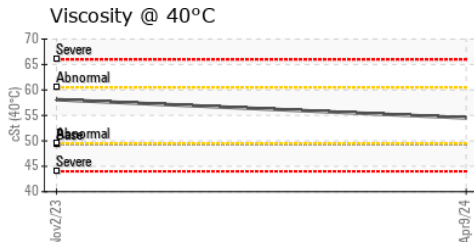
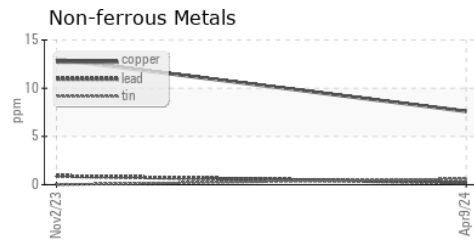
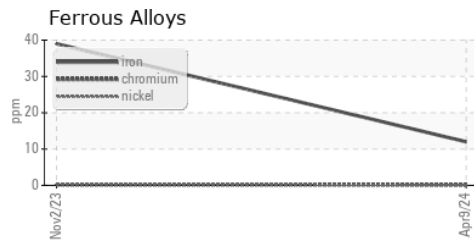
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	49.4	<b>54.5</b>	58.1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JHF0000192      **Received** : 19 Apr 2024  
**Lab Number** : **06154545**      **Tested** : 22 Apr 2024  
**Unique Number** : 10989968      **Diagnosed** : 23 Apr 2024 - Angela Borella  
**Test Package** : IND 2

**JOHN HENRY FOSTER COMPANY**  
 4700 LEBOURGET STREET  
 SAINT LOUIS, MO  
 US 63134  
 Contact: RACHEL VON HATTEN  
 rvonhatten@jhf.com

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)

T: (314)593-1267  
F: (314)874-0965