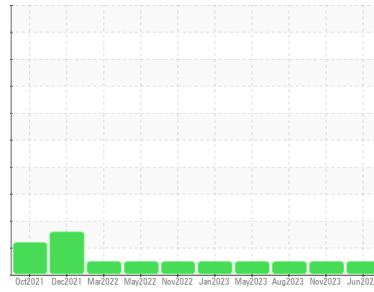




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**ELLIOT COMP 1 - UNIFI-MADISON (S/N B3EV2E087-2)**  
 Component  
**Compressor**  
 Fluid  
**DIAMOND BLUE (90 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

MPC (Membrane Patch Colorimetry) test indicates acceptable levels of varnish present. There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0903363</b>	WC0874260	WC0809784
Sample Date	Client Info		<b>04 Jun 2024</b>	10 Nov 2023	17 Aug 2023
Machine Age	hrs	Client Info	<b>68827</b>	64028	61996
Oil Age	hrs	Client Info	<b>11337</b>	6538	6031
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0
Barium	ppm	ASTM D5185m		<b>383</b>	371
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1
Calcium	ppm	ASTM D5185m		<b>1</b>	<1
Phosphorus	ppm	ASTM D5185m		<b>14</b>	21
Zinc	ppm	ASTM D5185m		<b>6</b>	0
Sulfur	ppm	ASTM D5185m		<b>201</b>	89

## CONTAMINANTS

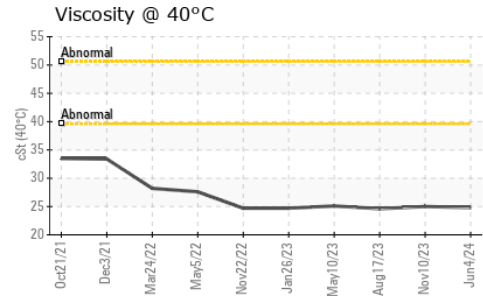
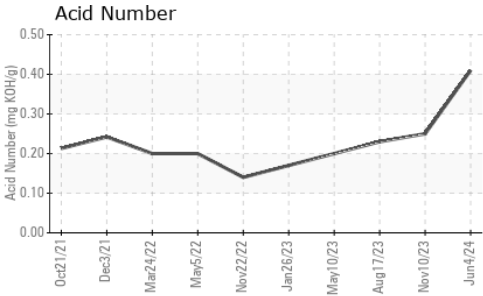
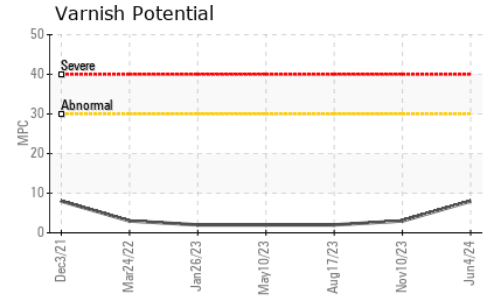
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	3
Sodium	ppm	ASTM D5185m		<b>4</b>	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.41</b>	0.25
MPC Varnish Potential	Scale	ASTM D7843	>15	<b>8</b>	3



# OIL ANALYSIS REPORT



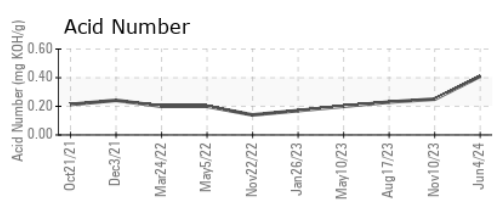
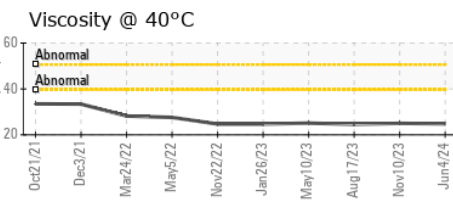
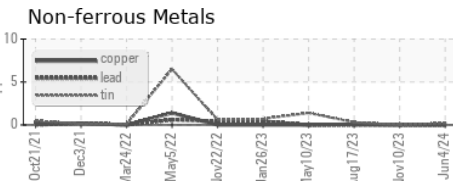
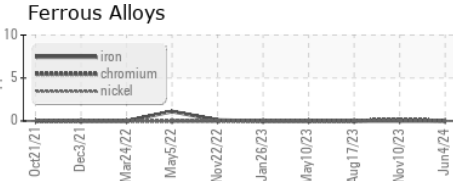
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	24.8	25.00	24.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

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

**Sample No.** : WC0903363

**Lab Number** : 06202873

**Unique Number** : 11070334

**Test Package** : IND 2 ( Additional Tests: MPC )

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)

**Received** : 07 Jun 2024

**Tested** : 14 Jun 2024

**Diagnosed** : 14 Jun 2024 - Doug Bogart

**FS-COMPRESSION CO, LLC**

203 AERO COURT

GREENSBORO, NC

US 27409

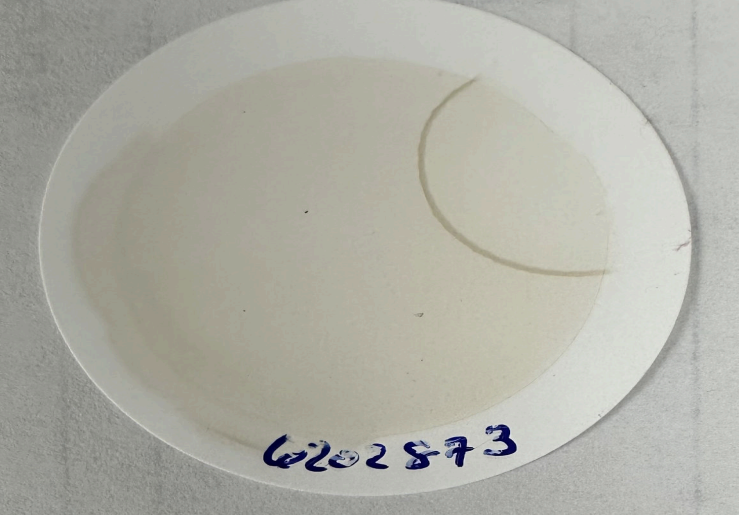
Contact: Dallas Burcham

dallas.burcham@fs-compression.com

T: (336)605-9622

F: (336)605-9844

MPC (Varnish Test)



Sample Color & Clarity



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