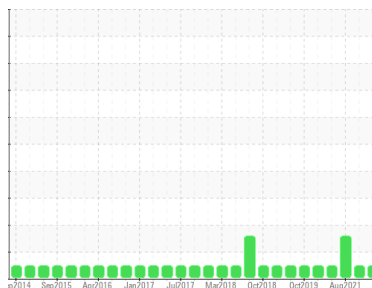




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**SYNOIL 8K [155249]**  
 Machine Id  
**QUINCY 92962J - SHAPE MASTER TOOL CO**  
 Component  
**Compressor**

## DIAGNOSIS

### Recommendation

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 component.

### 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>UCZ05995081</b>	UCZ05657511	UCZ05355587
Sample Date	Client Info			<b>11 Oct 2023</b>	22 Sep 2022	18 Aug 2021
Machine Age	hrs	Client Info		<b>12212</b>	70000	66404
Oil Age	hrs	Client Info		<b>8000</b>	5000	10000
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.3	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	0.3	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	0.9	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	0.2	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	0.1	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	429	<b>256</b>	204	271
Zinc	ppm	ASTM D5185m	0.3	<b>97</b>	55	83
Sulfur	ppm	ASTM D5185m	1336	<b>187</b>	201	204

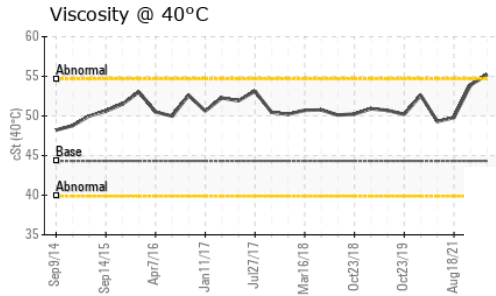
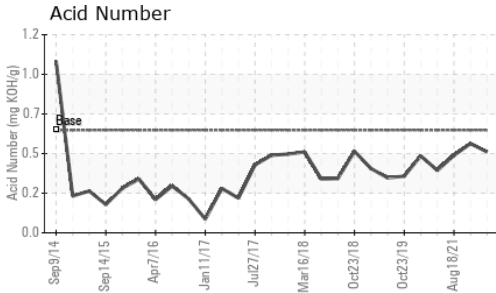
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	7
Sodium	ppm	ASTM D5185m		<b>35</b>	18	19
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.622	<b>0.49</b>	0.54	0.469

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	▲ 0.2%
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



# OIL ANALYSIS REPORT



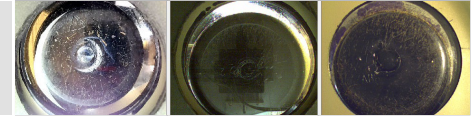
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.32	<b>55.2</b>	53.9	49.8

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

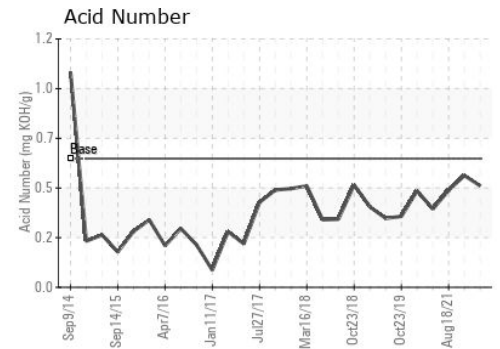
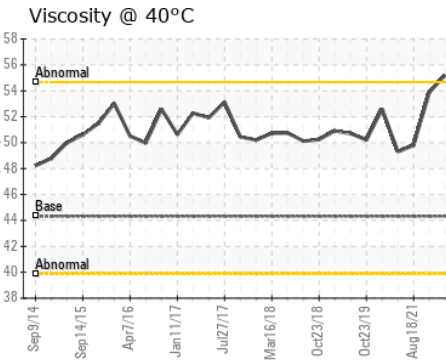
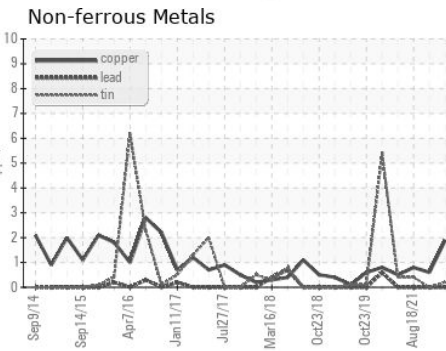
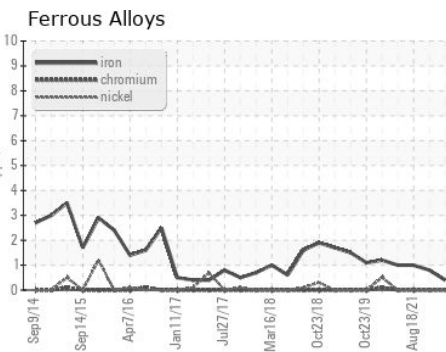
Color



Bottom



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ05995081 **Received** : 31 Oct 2023  
**Lab Number** : **05995081** **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10723441 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**ZORN COMPRESSOR EQUIPMENT**  
 227 AMBROSIO DR, SUITE A  
 GURNEE, IL  
 US 60031

Contact: Rachel Pesnikov  
 rachel.pesnikov@zornair.com  
 T: (847)599-1333

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)

F: x: