



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**UNKNOWN**  
Machine Id  
**UNKNOWN - MIDWEST MFG (S/N UNAVAILABLE)**  
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 oil.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 100 range. This plus the FTIR levels indicates a Group II mineral oil. 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>UCZ05937336</b>	---	---
Sample Date	Client Info		<b>23 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>7</b>	---	---
Chromium	ppm	ASTM D5185m >5	<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 >15	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m >65	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >65	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>0</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	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>1</b>	---	---
Calcium	ppm	ASTM D5185m	<b>2</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>9</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>503</b>	---	---

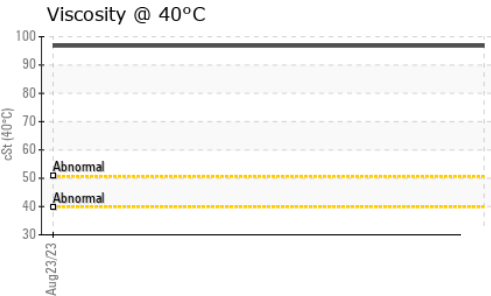
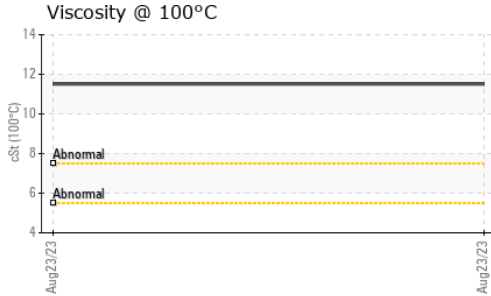
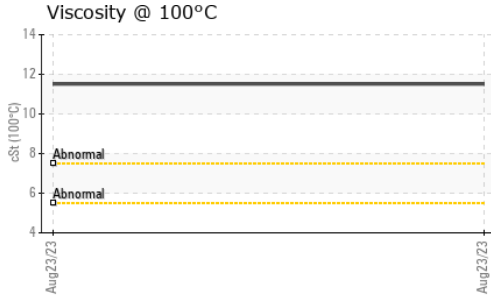
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>6</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624	<b>1.7</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	<b>11.5</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	<b>3.7</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.086</b>	---	---





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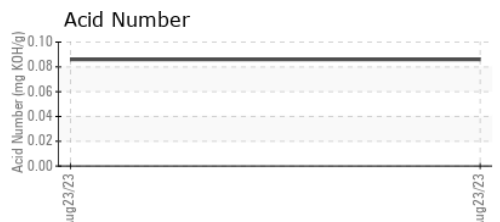
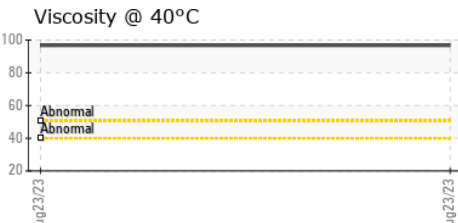
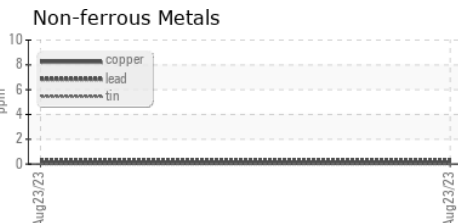
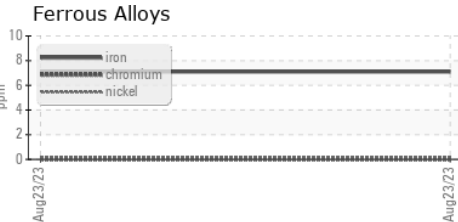


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
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	>0.1	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>96.75</b>	---	---
Visc @ 100°C	cSt	ASTM D445	<b>11.51</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270	<b>106</b>	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ05937336 **Received** : 29 Aug 2023  
**Lab Number** : **05937336** **Diagnosed** : 08 Sep 2023  
**Unique Number** : 10622607 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: FT-IR, KV100, VI )

**ZORN COMP & EQUIPMENT INC - EAU CLAIRE**  
 2218-D TRUAX BLVD  
 EAU CLAIRE, WI  
 US 54703  
 Contact: DAVE LUDWIG  
 dave.ludwig@zornair.com  
 T: (715)830-5292  
 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)