



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**EATON PRODUCTION 1 (S/N EC00003882)**

Component  
**Screw Compressor**

Fluid  
**BREAK IN OIL (2 GAL)**

## DIAGNOSIS

### ▲ Recommendation

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 a high amount of particulates present 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>WC0915214</b>	---	---
Sample Date	Client Info		<b>29 Feb 2024</b>	---	---
Machine Age	hrs	Client Info	<b>454</b>	---	---
Oil Age	hrs	Client Info	<b>454</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>13</b>	---	---
Iron	ppm	ASTM D5185m >60	<b>0</b>	---	---
Chromium	ppm	ASTM D5185m >4	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	<b>3</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >30	<b>1</b>	---	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</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>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m	<b>36</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>333</b>	---	---
Zinc	ppm	ASTM D5185m	<b>4</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>537</b>	---	---

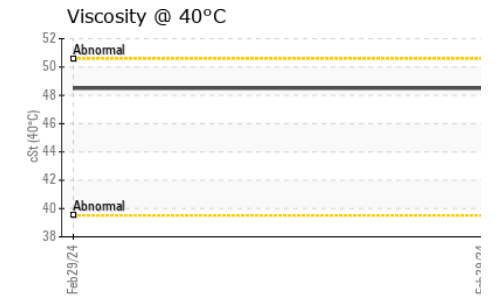
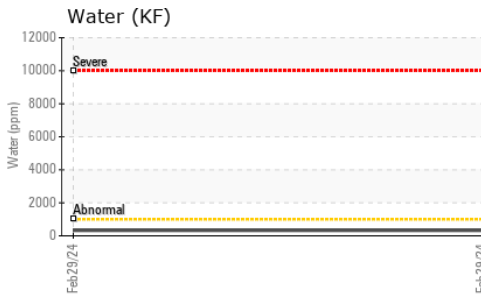
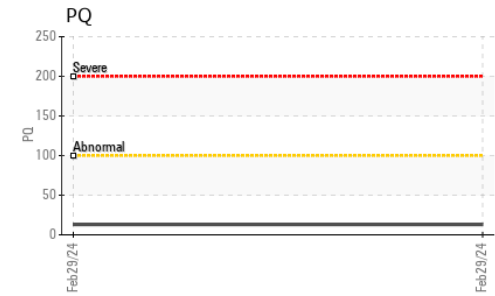
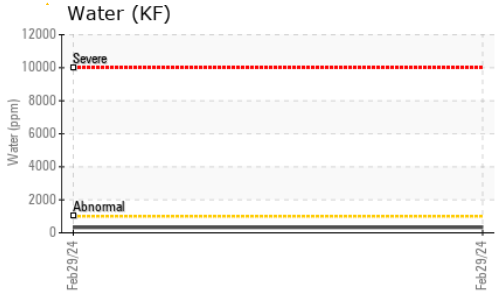
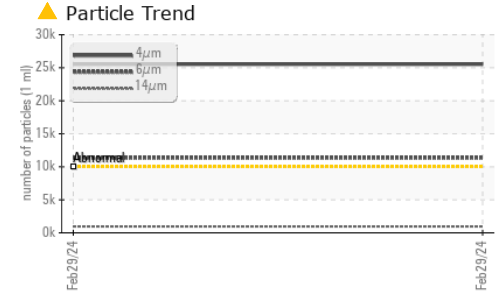
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>6</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---
Water	%	ASTM D6304 >0.1	<b>0.033</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>330</b>	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>25523</b>	---	---
Particles >6µm	ASTM D7647	>2500	▲ <b>11364</b>	---	---
Particles >14µm	ASTM D7647	>320	▲ <b>962</b>	---	---
Particles >21µm	ASTM D7647	>80	▲ <b>228</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>7</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>22/21/17</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.09</b>	---	---



# OIL ANALYSIS REPORT



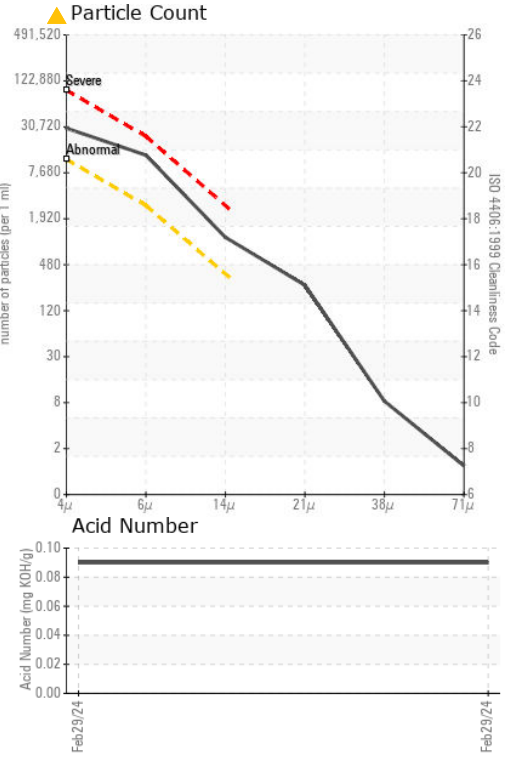
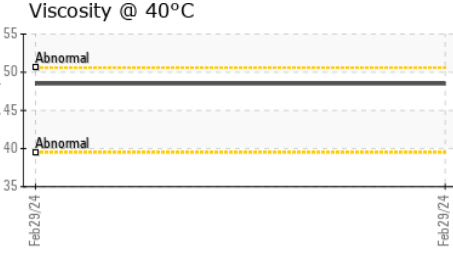
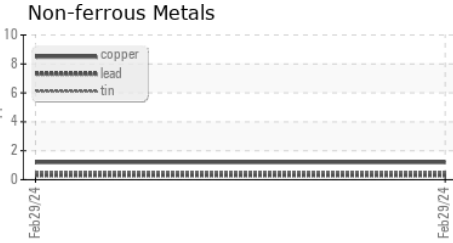
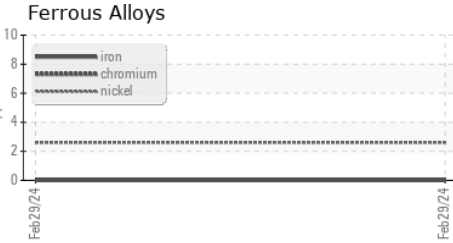
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	48.5	---	---

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.** : WC0915214 **Received** : 19 Mar 2024  
**Lab Number** : 06122315 **Tested** : 20 Mar 2024  
**Unique Number** : 10936466 **Diagnosed** : 21 Mar 2024 - Jonathan Hester  
**Test Package** : PLANT

**ZMAX OIL - CHEM RESEARCH CORP**  
 5265 Z-MAX BLVD  
 HARRISBURG, NC  
 US 28075  
 Contact: DAVID COUGHTRY  
 dcoughtry@zmax.com  
 T: (888)645-1101  
 F:

Certificate L2367  
 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)