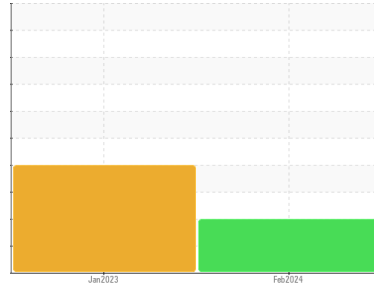




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**5449184 (S/N 1405)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**  
 No corrective action is recommended at this time. The 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>KCPA011855</b>	KCP53136	---
Sample Date	Client Info	<b>14 Feb 2024</b>	18 Jan 2023	---
Machine Age	hrs	<b>25973</b>	22500	---
Oil Age	hrs	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	Changed	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	<b>2</b>	13	---
Chromium ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Nickel ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Titanium ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	---
Silver ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Aluminum ppm	ASTM D5185m >10	<b>&lt;1</b>	<b>▲ 14</b>	---
Lead ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Copper ppm	ASTM D5185m >50	<b>13</b>	16	---
Tin ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Vanadium ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	<b>0</b>	0	---
Barium ppm	ASTM D5185m 90	<b>10</b>	59	---
Molybdenum ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	1	---
Magnesium ppm	ASTM D5185m 100	<b>19</b>	68	---
Calcium ppm	ASTM D5185m 0	<b>&lt;1</b>	<b>▲ 25</b>	---
Phosphorus ppm	ASTM D5185m 0	<b>0</b>	<b>▲ 107</b>	---
Zinc ppm	ASTM D5185m 0	<b>35</b>	<b>▲ 109</b>	---
Sulfur ppm	ASTM D5185m 23500	<b>29064</b>	14652	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<b>2</b>	5	---
Sodium ppm	ASTM D5185m	<b>12</b>	49	---
Potassium ppm	ASTM D5185m >20	<b>3</b>	9	---
Water %	ASTM D6304 >0.05	<b>0.017</b>	0.024	---
ppm Water ppm	ASTM D6304 >500	<b>179</b>	244.2	---

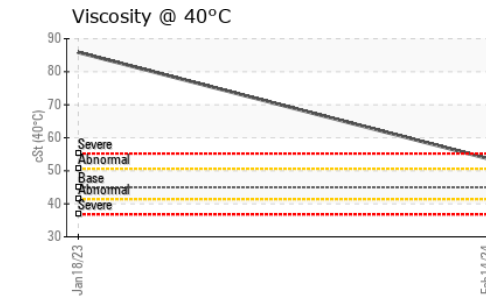
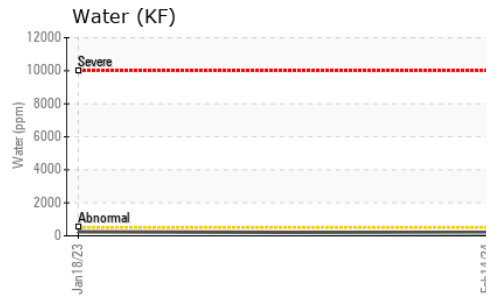
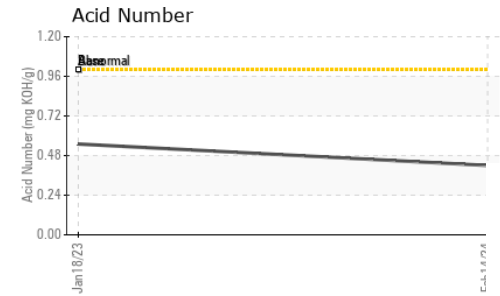
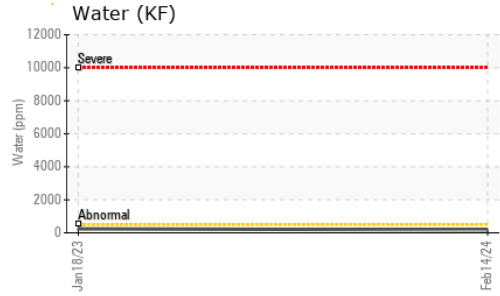
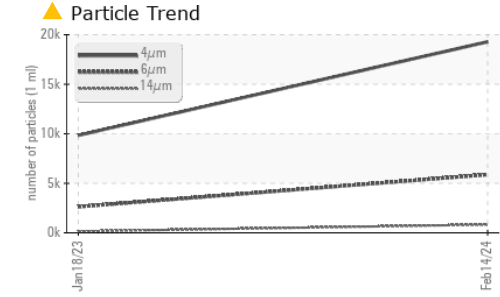
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>19286</b>	9842	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 5881</b>	<b>▲ 2632</b>	---
Particles >14µm	ASTM D7647 >80	<b>▲ 830</b>	<b>▲ 141</b>	---
Particles >21µm	ASTM D7647 >20	<b>▲ 231</b>	<b>▲ 22</b>	---
Particles >38µm	ASTM D7647 >4	<b>▲ 4</b>	0	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 21/20/17</b>	<b>▲ 20/19/14</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 1.0	<b>0.42</b>	0.55	---

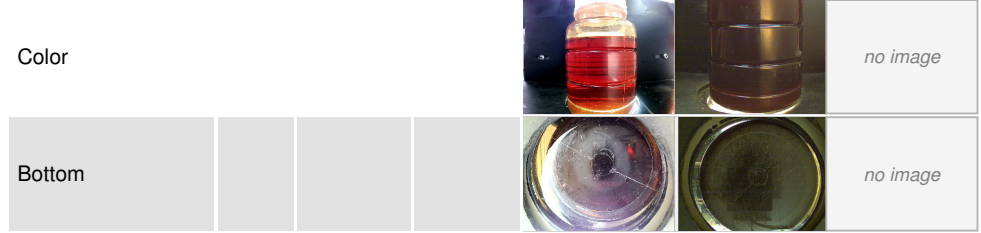
# OIL ANALYSIS REPORT



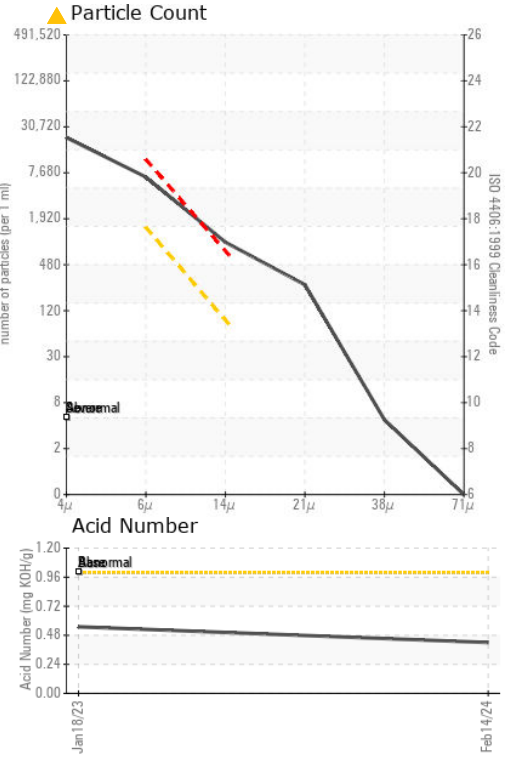
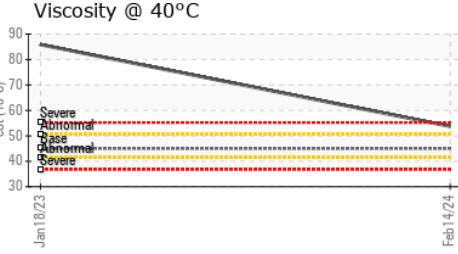
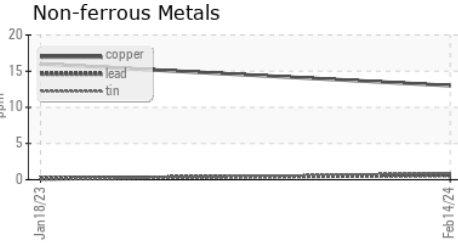
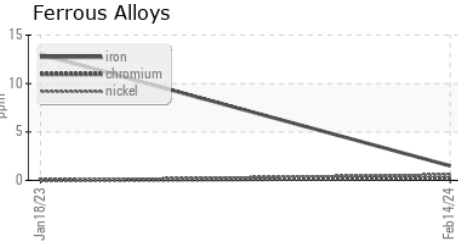
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	53.7	85.86

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA011855 **Received** : 23 Feb 2024  
**Lab Number** : 06098397 **Tested** : 26 Feb 2024  
**Unique Number** : 10896627 **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**EXECUTIVE CASE WORK**  
 945 BARRYESSA RD  
 SAN JOSE, CA  
 US 95111  
 Contact: M. BROWN  
 mbrown@executivecasework.com  
 T:  
 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)