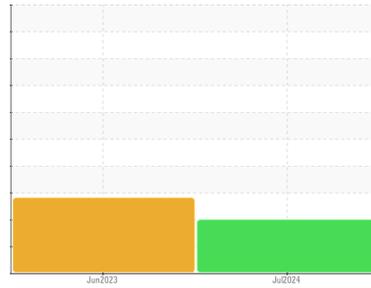




# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**KAESER AS 25 8651902 (S/N 1689)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

### DIAGNOSIS

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCPA020701</b>	KCP53434	---
Sample Date	Client Info		<b>09 Jul 2024</b>	06 Jun 2023	---
Machine Age	hrs	Client Info	<b>11759</b>	5901	---
Oil Age	hrs	Client Info	<b>5858</b>	5901	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	2	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>10</b>	▲ 81	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</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 90	<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 90	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	<b>0</b>	<1	---
Zinc	ppm	ASTM D5185m	<b>0</b>	4	---
Sulfur	ppm	ASTM D5185m	<b>7170</b>	9041	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	0	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	---
Water	%	ASTM D6304 >0.05	<b>0.005</b>	0.005	---
ppm Water	ppm	ASTM D6304 >500	<b>53</b>	52.4	---

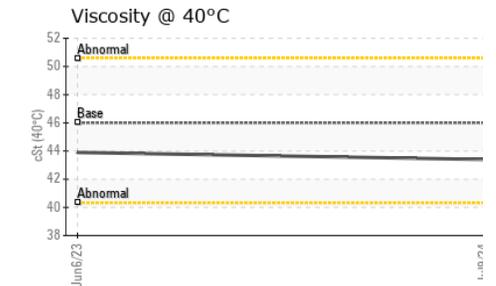
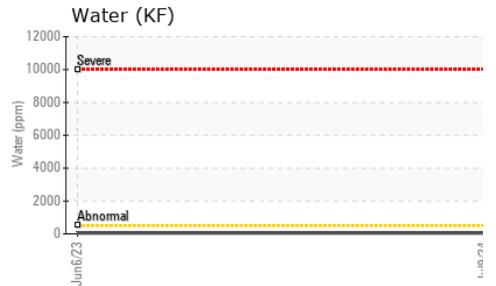
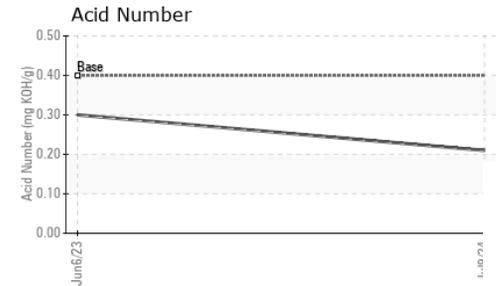
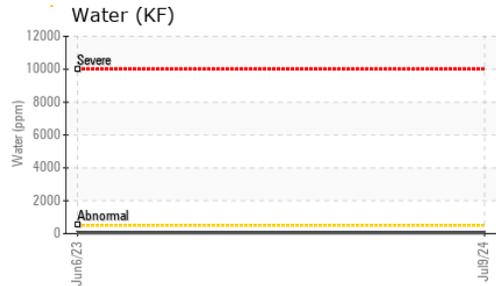
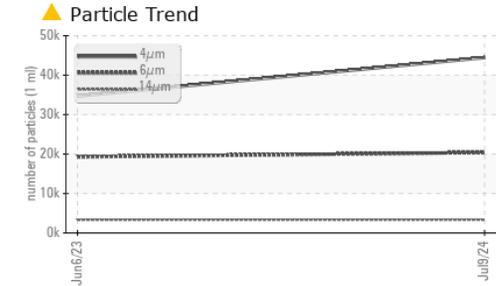
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>44458</b>	34709	---
Particles >6µm	ASTM D7647 >1300		▲ <b>20395</b>	▲ 19303	---
Particles >14µm	ASTM D7647 >80		▲ <b>3352</b>	▲ 3347	---
Particles >21µm	ASTM D7647 >20		▲ <b>1124</b>	▲ 813	---
Particles >38µm	ASTM D7647 >4		▲ <b>38</b>	▲ 10	---
Particles >71µm	ASTM D7647 >3		<b>2</b>	1	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ <b>23/22/19</b>	▲ 22/21/19	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.21</b>	0.30	---

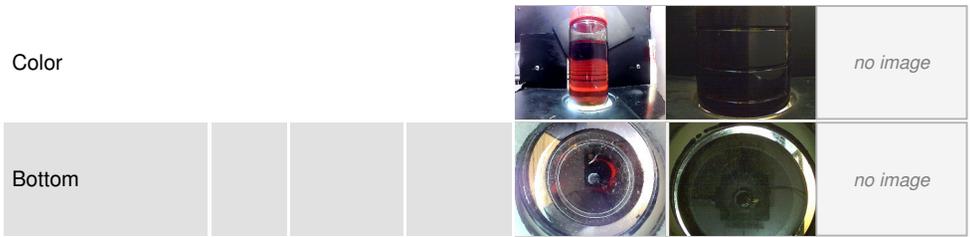
# OIL ANALYSIS REPORT



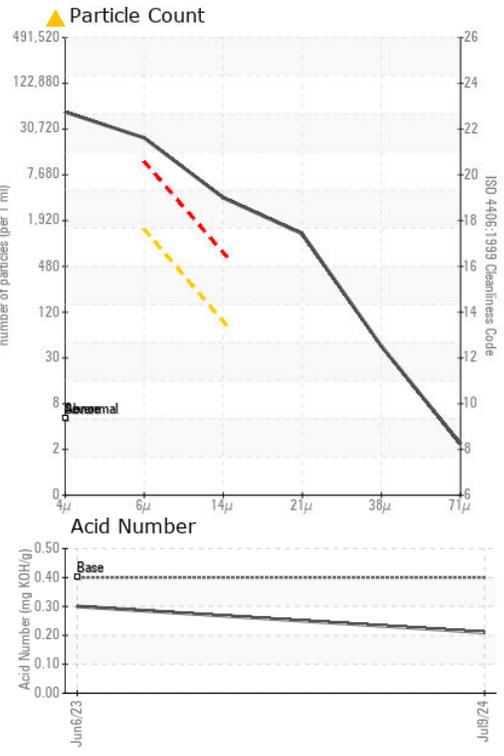
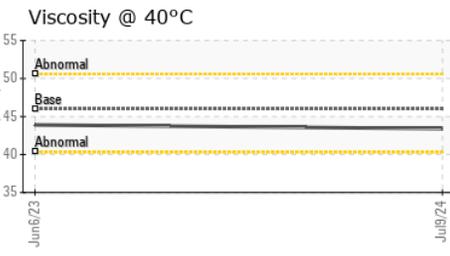
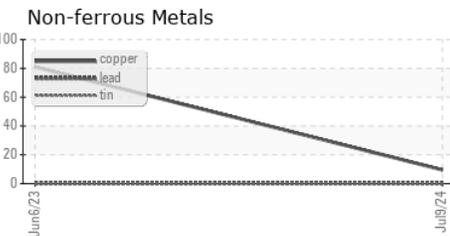
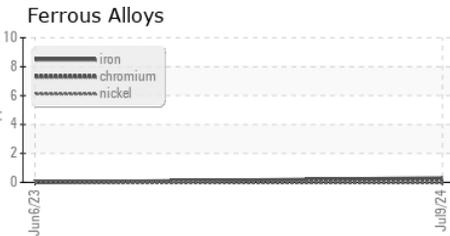
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.4	43.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA020701 **Received** : 16 Jul 2024  
**Lab Number** : 06238419 **Tested** : 17 Jul 2024  
**Unique Number** : 11127253 **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**JEFFCO DAIRY**  
 622 MILKY WAY  
 GREENVILLE, FL  
 US 32331  
 Contact: Service Manager

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)