



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**4170544 (S/N 1087)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) FG-460 (--- QTS)**

## 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>KCPA010207</b>	---	---
Sample Date	Client Info	<b>07 Feb 2024</b>	---	---
Machine Age	hrs	Client Info	<b>33464</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>1</b>	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	---
Copper	ppm	ASTM D5185m >50	<b>3</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>0</b>	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185m	<b>1</b>	---
Phosphorus	ppm	ASTM D5185m 500	<b>95</b>	---
Zinc	ppm	ASTM D5185m	<b>53</b>	---
Sulfur	ppm	ASTM D5185m	<b>1060</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---
Water	%	ASTM D6304 >0.05	<b>0.004</b>	---
ppm Water	ppm	ASTM D6304 >500	<b>43</b>	---

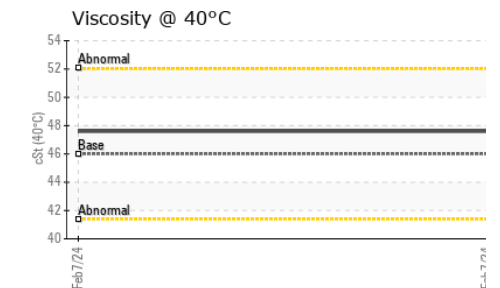
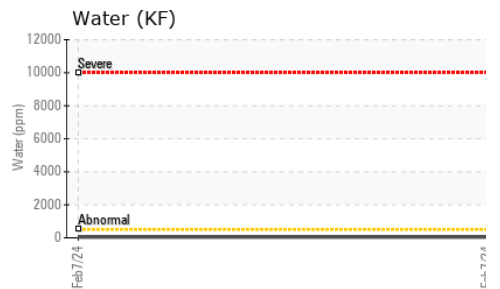
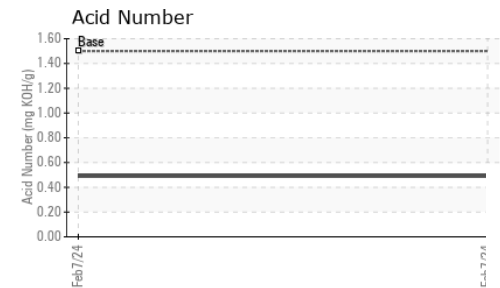
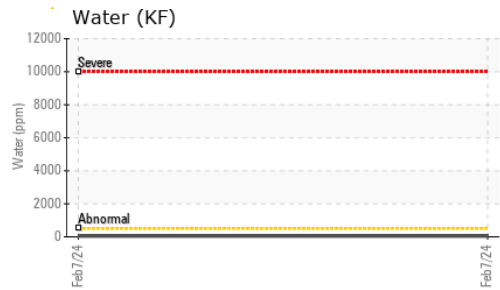
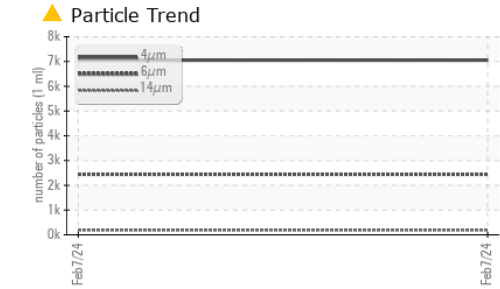
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>7051</b>	---	---
Particles >6µm	ASTM D7647 >1300	▲ <b>2444</b>	---	---
Particles >14µm	ASTM D7647 >80	▲ <b>187</b>	---	---
Particles >21µm	ASTM D7647 >20	▲ <b>38</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>20/18/15</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.5	<b>0.49</b>	---

# OIL ANALYSIS REPORT



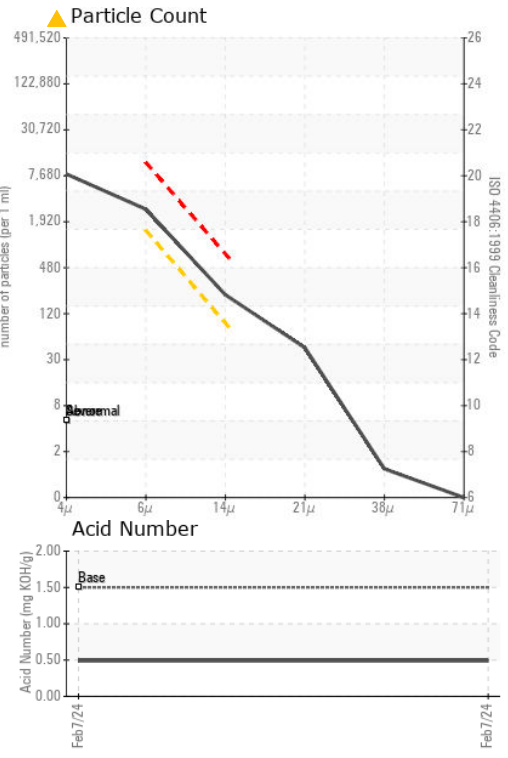
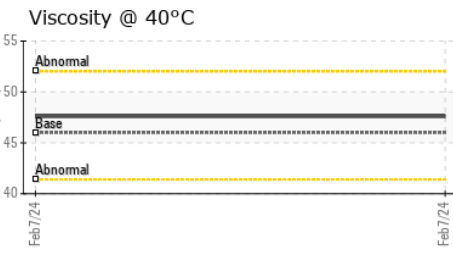
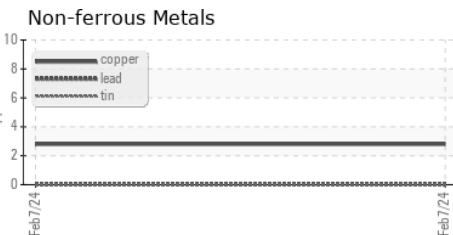
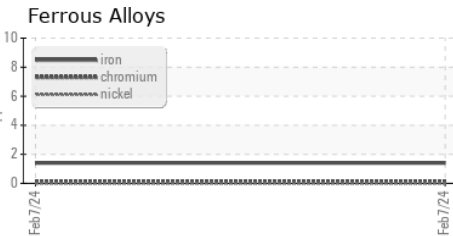
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	47.6	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA010207 **Received** : 22 Feb 2024  
**Lab Number** : 06097699 **Tested** : 23 Feb 2024  
**Unique Number** : 10890552 **Diagnosed** : 25 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**GROWER DIRECT NUT CO**  
 2288 GEER RD  
 HUGHSON, CA  
 US 95326  
 Contact: ANN P.  
 annp@gdnut.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)