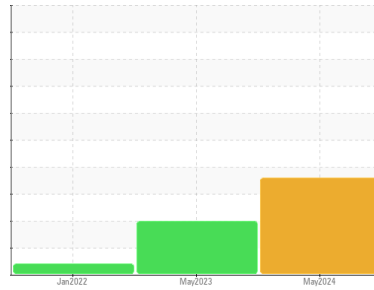




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id

**KAESER 7120849**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KC06216877</b>	KC05883340	KC05450131
Sample Date	Client Info		<b>15 May 2024</b>	26 May 2023	18 Jan 2022
Machine Age	hrs	Client Info	<b>17152</b>	11230	4311
Oil Age	hrs	Client Info	<b>0</b>	0	1118
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<1	<1	<1
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m >3	<1	<1	0
Titanium	ppm	ASTM D5185m >3	<1	0	0
Silver	ppm	ASTM D5185m >2	<1	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	0	0
Lead	ppm	ASTM D5185m >10	<1	<1	0
Copper	ppm	ASTM D5185m >50	<b>10</b>	6	10
Tin	ppm	ASTM D5185m >10	<1	0	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	23
Barium	ppm	ASTM D5185m 90	<b>1</b>	17	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>2</b>	46	2
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	5
Phosphorus	ppm	ASTM D5185m	<b>5</b>	0	4
Zinc	ppm	ASTM D5185m	<b>12</b>	8	33

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	0	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	11	63
Potassium	ppm	ASTM D5185m >20	<b>1</b>	23	16
Water	%	ASTM D6304 >0.05	<b>▲ 0.078</b>	0.013	0.025
ppm Water	ppm	ASTM D6304 >500	<b>▲ 786</b>	131.6	251.1

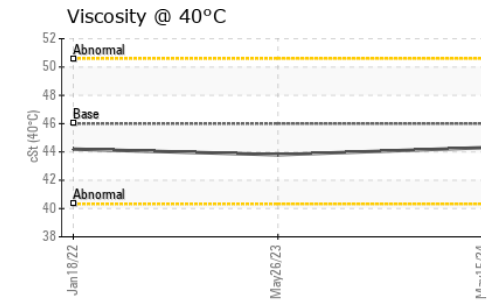
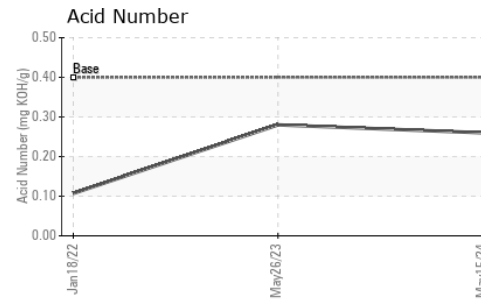
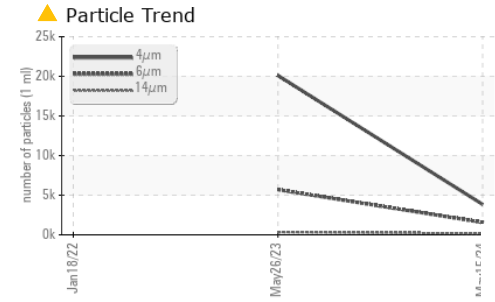
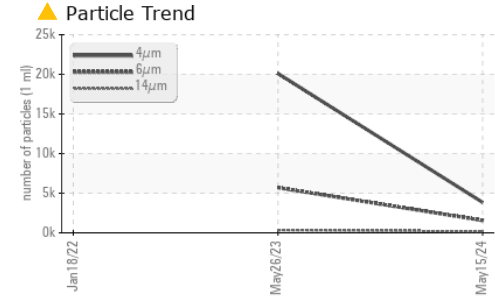
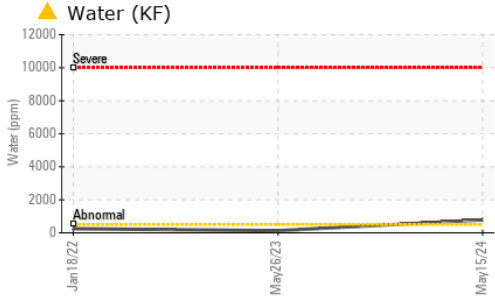
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>3839</b>	20105	---
Particles >6µm	ASTM D7647 >1300		<b>▲ 1561</b>	▲ 5695	---
Particles >14µm	ASTM D7647 >80		<b>▲ 172</b>	▲ 334	---
Particles >21µm	ASTM D7647 >20		<b>▲ 53</b>	▲ 86	---
Particles >38µm	ASTM D7647 >4		<b>▲ 4</b>	▲ 6	---
Particles >71µm	ASTM D7647 >3		<b>0</b>	1	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 19/18/15</b>	▲ 22/20/16	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.26</b>	0.28	0.107

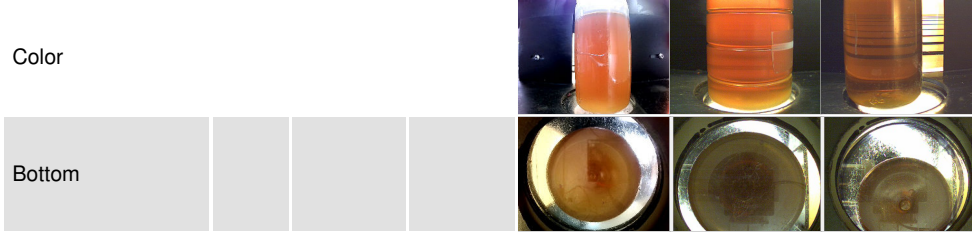
# OIL ANALYSIS REPORT



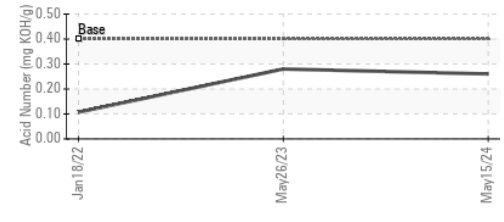
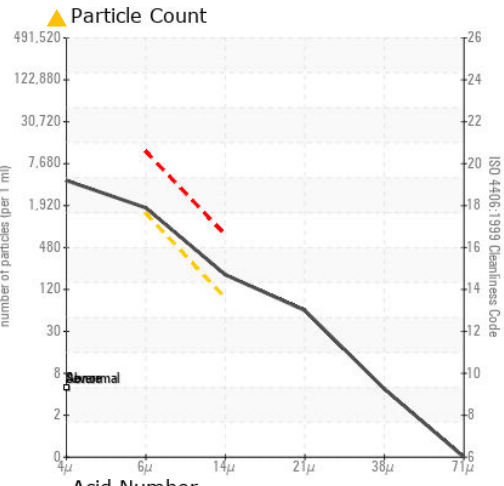
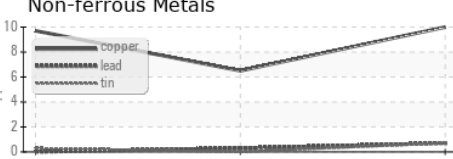
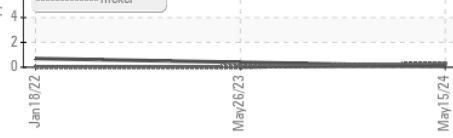
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	44.3	43.8	44.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC06216877  
**Lab Number** : 06216877  
**Unique Number** : 11089741  
**Test Package** : IND 2  
**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Don Baldrige

**CARMAX #6140**  
 4300 ATLANTA HWY  
 BOGART, GA  
 US 30622  
 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)