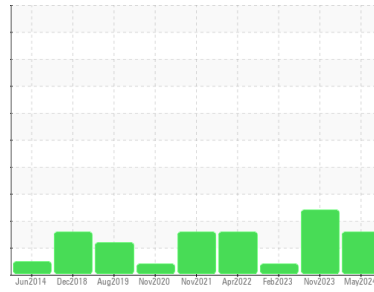




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SFC 160 4771128 (S/N 1010)**  
 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCPA018402</b>	KCPA011369	KCP46334
Sample Date	Client Info			<b>18 May 2024</b>	28 Nov 2023	27 Feb 2023
Machine Age	hrs	Client Info		<b>85087</b>	80964	74600
Oil Age	hrs	Client Info		<b>8700</b>	0	7071
Oil Changed	Client Info			<b>Changed</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>9</b>	2	<1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>4</b>	4	12
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

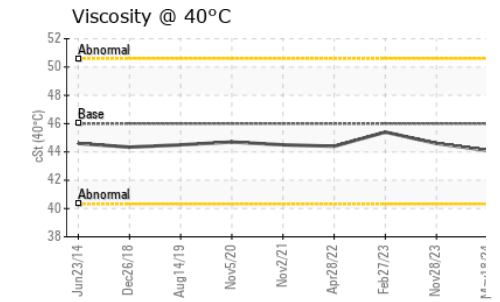
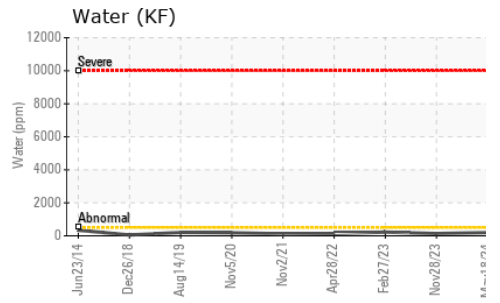
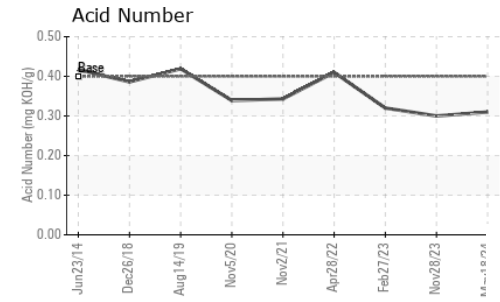
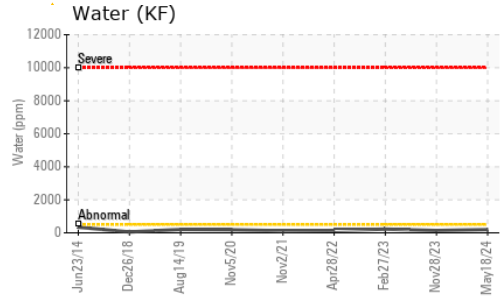
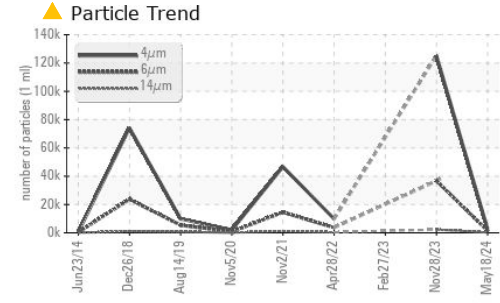
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	1	1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	90	<b>25</b>	46	41
Calcium	ppm	ASTM D5185m	2	<b>0</b>	2	<1
Phosphorus	ppm	ASTM D5185m		<b>0</b>	<1	2
Zinc	ppm	ASTM D5185m		<b>6</b>	0	11
Sulfur	ppm	ASTM D5185m		<b>20728</b>	17774	19192

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m		<b>27</b>	39	33
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	6	8
Water	%	ASTM D6304	>0.05	<b>0.020</b>	0.013	0.022
ppm Water	ppm	ASTM D6304	>500	<b>200</b>	138	225.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>2703</b>	125214	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 1454</b>	▲ 36754	---
Particles >14µm		ASTM D7647	>80	<b>▲ 220</b>	▲ 2307	---
Particles >21µm		ASTM D7647	>20	<b>▲ 52</b>	▲ 660	---
Particles >38µm		ASTM D7647	>4	<b>2</b>	▲ 50	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 3	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 19/18/15</b>	▲ 24/22/18	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.31</b>	0.30	0.32

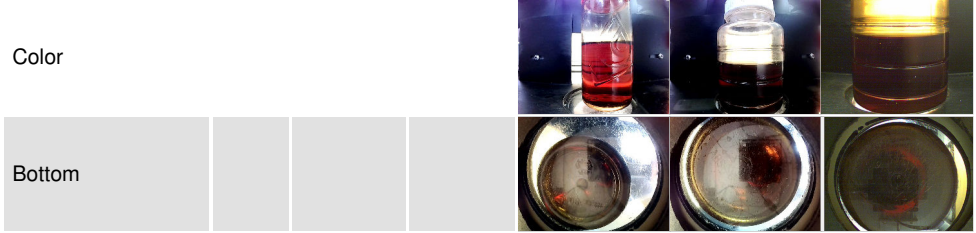
# OIL ANALYSIS REPORT



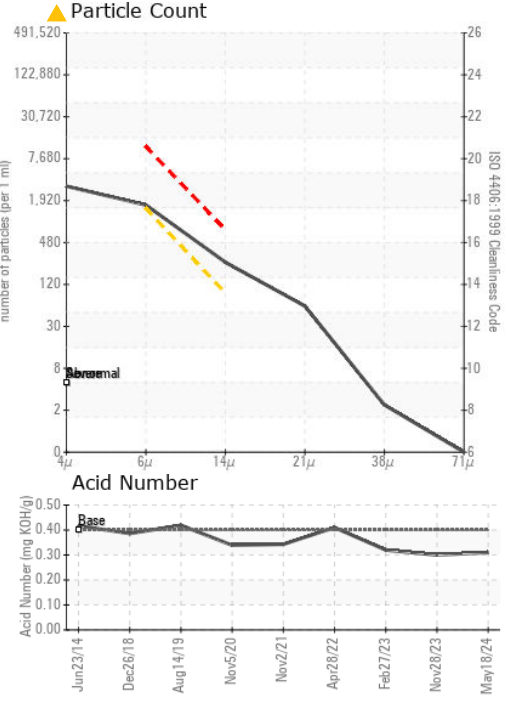
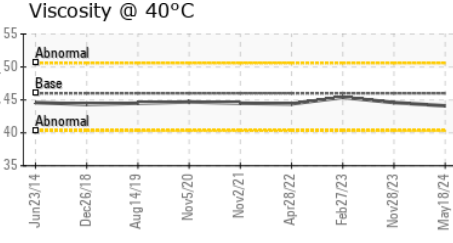
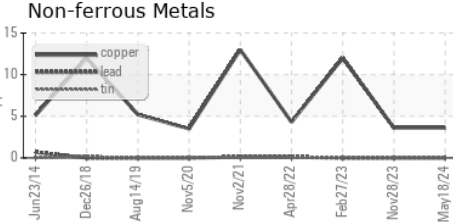
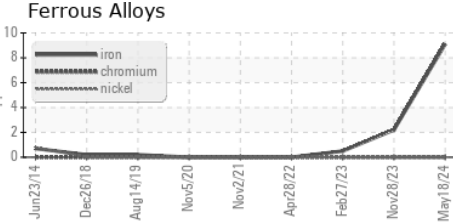
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.6	45.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA018402 **Received** : 05 Jun 2024  
**Lab Number** : 06200769 **Tested** : 06 Jun 2024  
**Unique Number** : 11062892 **Diagnosed** : 07 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**BURD & FLETCHER**  
 5151 GEOSPACE DR  
 INDEPENDENCE, MO  
 US 64056  
 Contact: ANDY AZIERE  
 andy.aziere@burdfletcher.com

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)