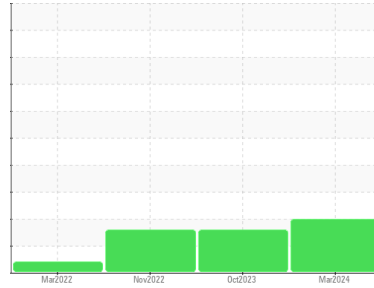




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**8088209 (S/N 1059)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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 light concentration of water present in the oil. High concentration of visible dirt/debris 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>KCPA015775</b>	KCPA006807	KCP52013
Sample Date	Client Info			<b>14 Mar 2024</b>	09 Oct 2023	28 Nov 2022
Machine Age	hrs	Client Info		<b>11548</b>	9711	6965
Oil Age	hrs	Client Info		<b>1837</b>	0	3386
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>4</b>	7	9
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

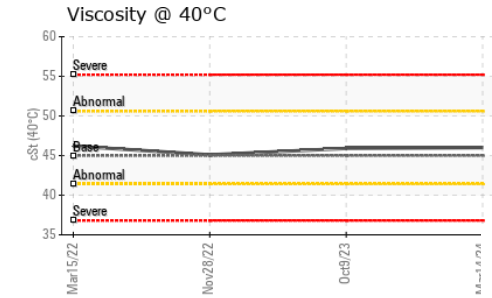
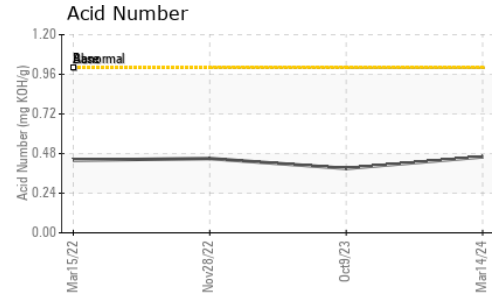
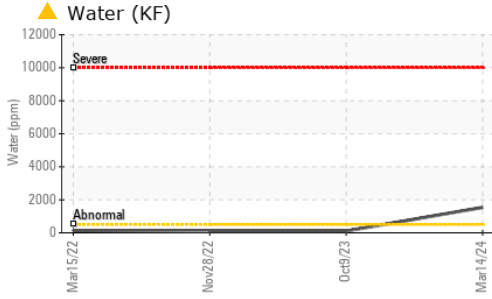
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>30</b>	11	11
Calcium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	0	<b>0</b>	3	10
Zinc	ppm	ASTM D5185m	0	<b>56</b>	106	49
Sulfur	ppm	ASTM D5185m	23500	<b>21197</b>	19332	22198

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m		<b>9</b>	5	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	2
Water	%	ASTM D6304	>0.05	<b>▲ 0.154</b>	0.011	0.010
ppm Water	ppm	ASTM D6304	>500	<b>▲ 1540</b>	110.7	107.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>---</b>	13162	17561
Particles >6µm		ASTM D7647	>1300	<b>---</b>	▲ 4147	▲ 5621
Particles >14µm		ASTM D7647	>80	<b>---</b>	▲ 227	▲ 278
Particles >21µm		ASTM D7647	>20	<b>---</b>	▲ 45	▲ 72
Particles >38µm		ASTM D7647	>4	<b>---</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>---</b>	▲ 21/19/15	▲ 21/20/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.46</b>	0.39	0.45

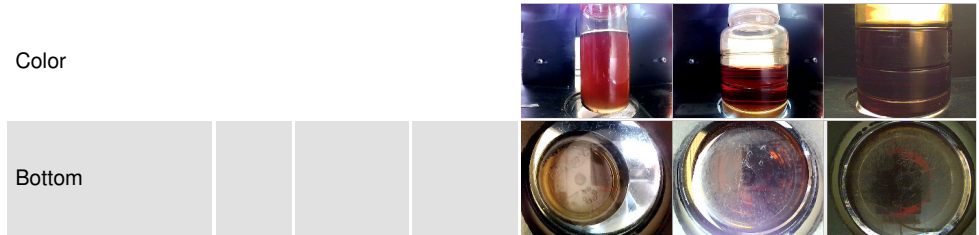
# OIL ANALYSIS REPORT



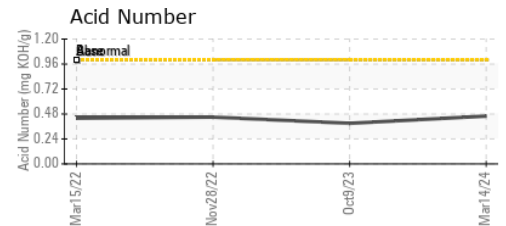
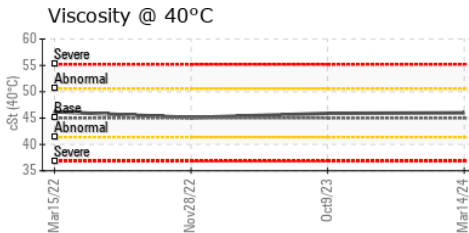
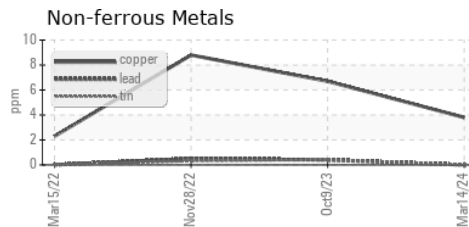
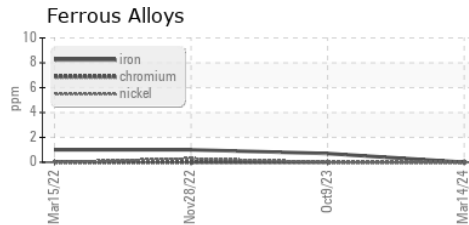
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	46.0	45.9	45.1

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA015775 **Received** : 21 Mar 2024  
**Lab Number** : 06125685 **Tested** : 26 Mar 2024  
**Unique Number** : 10939836 **Diagnosed** : 26 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PritCount )

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)

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