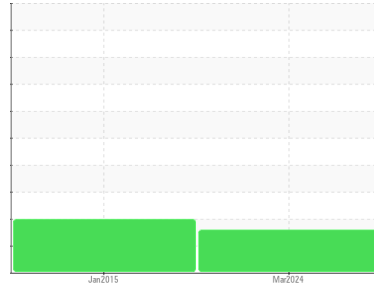




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER SFC 22 4577236 (S/N 1022)**

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

## DIAGNOSIS

### Recommendation

Oil and 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>KCPA015537</b>	KCP40499	---
Sample Date	Client Info		<b>08 Mar 2024</b>	22 Jan 2015	---
Machine Age	hrs	Client Info	<b>42640</b>	10119	---
Oil Age	hrs	Client Info	<b>3683</b>	3531	---
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	<1	<1	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	0	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >10	0	<1	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >50	15	6	---
Tin	ppm	ASTM D5185m >10	<1	0	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	---
Barium	ppm	ASTM D5185m 90	0	36	---
Molybdenum	ppm	ASTM D5185m 0	0	<1	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 100	15	58	---
Calcium	ppm	ASTM D5185m 0	<1	0	---
Phosphorus	ppm	ASTM D5185m 0	0	0	---
Zinc	ppm	ASTM D5185m 0	17	2	---
Sulfur	ppm	ASTM D5185m 23500	22127	23358	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	<1	---
Sodium	ppm	ASTM D5185m	10	30	---
Potassium	ppm	ASTM D5185m >20	1	<1	---
Water	%	ASTM D6304 >0.05	0.005	0.008	---
ppm Water	ppm	ASTM D6304 >500	54	80	---

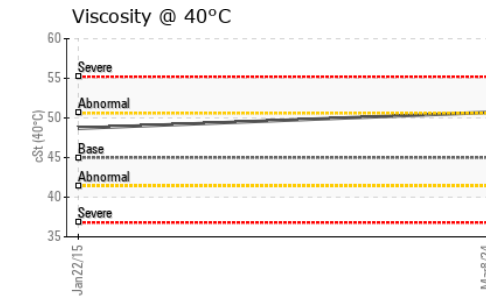
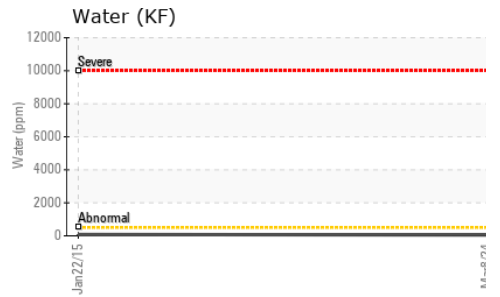
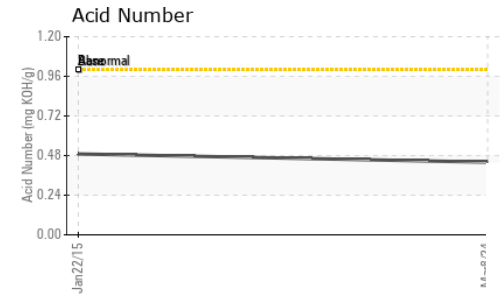
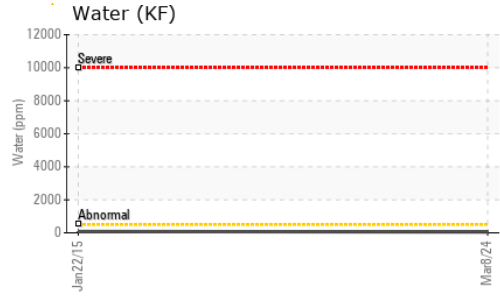
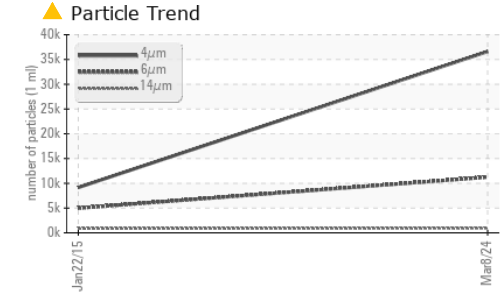
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		36617	9154	---
Particles >6µm	ASTM D7647	>1300	▲ 11252	▲ 4986	---
Particles >14µm	ASTM D7647	>80	▲ 914	▲ 849	---
Particles >21µm	ASTM D7647	>20	▲ 182	▲ 286	---
Particles >38µm	ASTM D7647	>4	4	▲ 44	---
Particles >71µm	ASTM D7647	>3	0	▲ 4	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/21/17	▲ 19/17	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.44	0.490	---

# OIL ANALYSIS REPORT



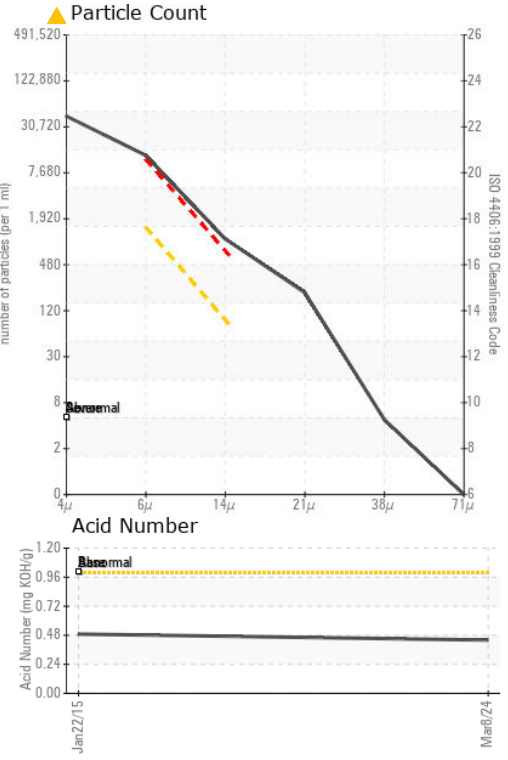
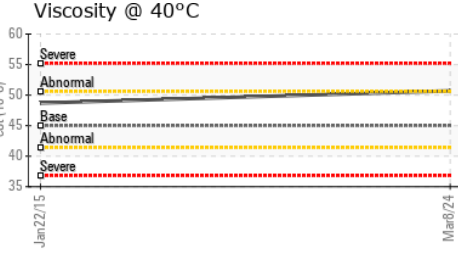
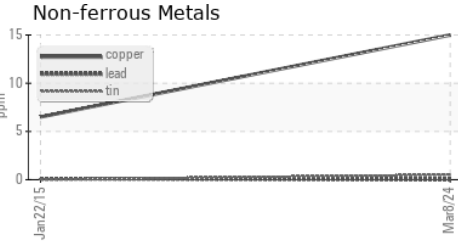
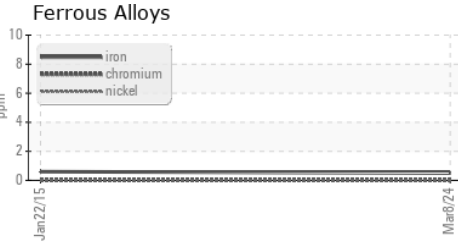
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	50.7	48.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA015537 **Received** : 20 Mar 2024  
**Lab Number** : 06123648 **Tested** : 25 Mar 2024  
**Unique Number** : 10937799 **Diagnosed** : 25 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**MONARCH METALS**  
 2597 W 64TH AVE  
 DENVER, CO  
 US 80221  
 Contact:

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)

T:  
F: