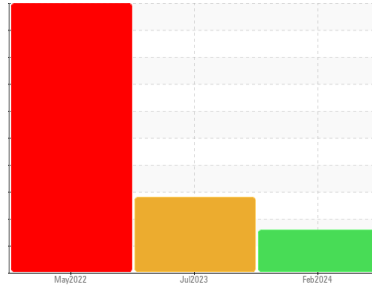




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESR 6989367 (S/N 1012)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-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 moderate 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>KC120589</b>	KC103802	KC31742
Sample Date	Client Info			<b>28 Feb 2024</b>	24 Jul 2023	25 May 2022
Machine Age	hrs	Client Info		<b>1172</b>	1132	1049
Oil Age	hrs	Client Info		<b>0</b>	83	464
Oil Changed	Client Info			<b>N/A</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	▲ 180
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	2	10
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

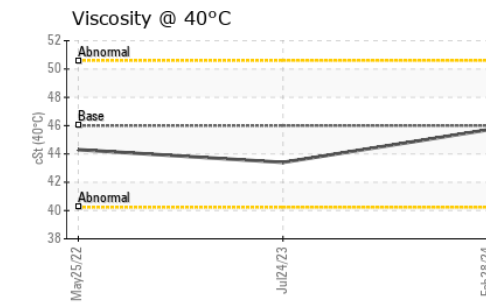
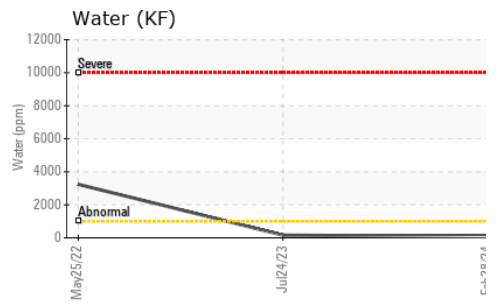
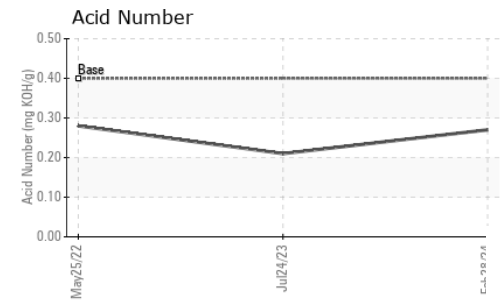
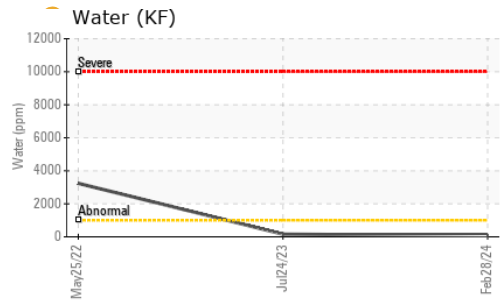
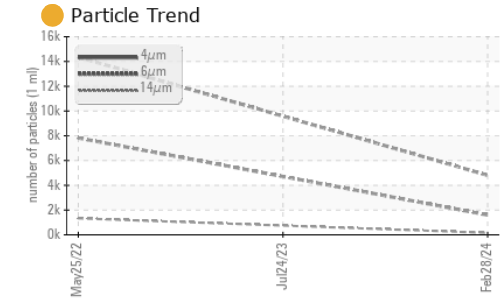
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	90	<b>37</b>	0	19
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m	90	<b>38</b>	0	28
Calcium	ppm	ASTM D5185m	2	<b>&lt;1</b>	0	5
Phosphorus	ppm	ASTM D5185m		<b>0</b>	57	23
Zinc	ppm	ASTM D5185m		<b>6</b>	0	23

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	2	12
Sodium	ppm	ASTM D5185m		<b>6</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	2
Water	%	ASTM D6304	>0.1	<b>0.007</b>	0.016	▲ 0.324
ppm Water	ppm	ASTM D6304	>1000	<b>71</b>	160	▲ 3240

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>4809</b>	---	14357
Particles >6µm		ASTM D7647	>1300	● <b>1602</b>	---	▲ 7821
Particles >14µm		ASTM D7647	>80	● <b>156</b>	---	▲ 1331
Particles >21µm		ASTM D7647	>20	● <b>45</b>	---	▲ 448
Particles >38µm		ASTM D7647	>4	<b>1</b>	---	▲ 69
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	▲ 7
Oil Cleanliness		ISO 4406 (c)	>17/13	● <b>18/14</b>	---	▲ 20/18

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.27</b>	0.21	0.28

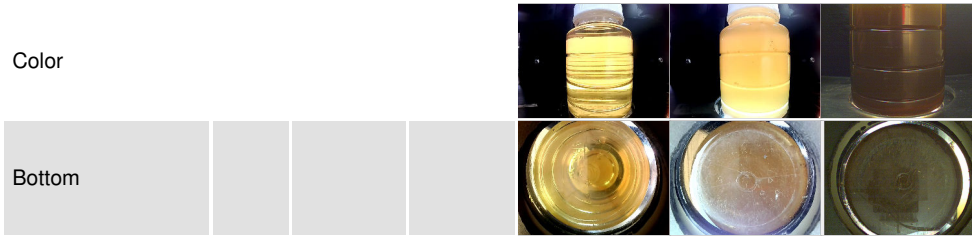
# OIL ANALYSIS REPORT



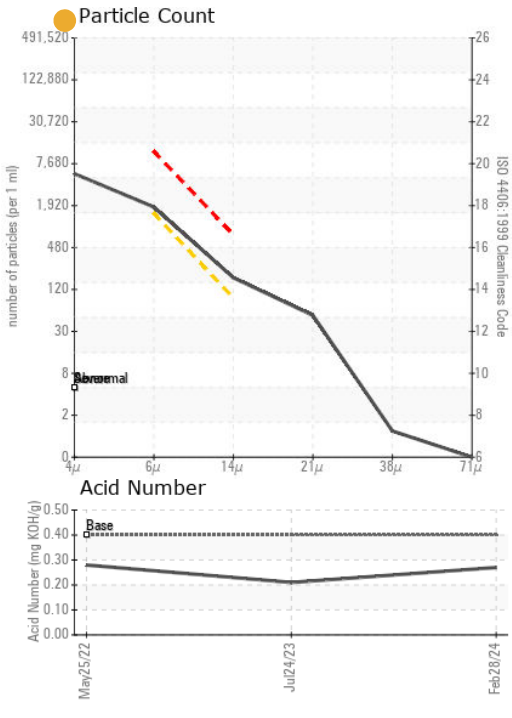
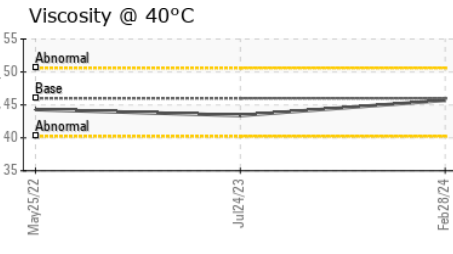
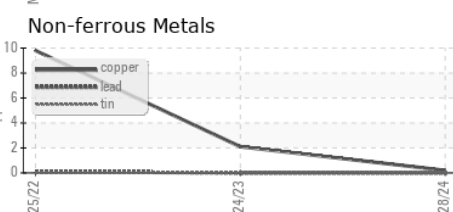
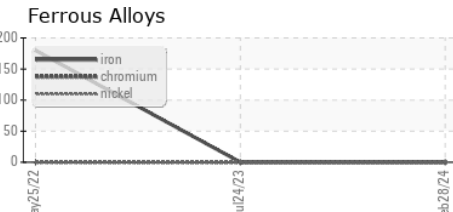
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0
					▲ 2.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.7	43.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC120589  
**Lab Number** : 06125697  
**Unique Number** : 10939848  
**Test Package** : IND 2  
**Received** : 21 Mar 2024  
**Tested** : 22 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Don Baldrige

**LUNAR COMPANIES**  
 4601 E 246TH ST  
 CICERO, IN  
 US 46034  
 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)