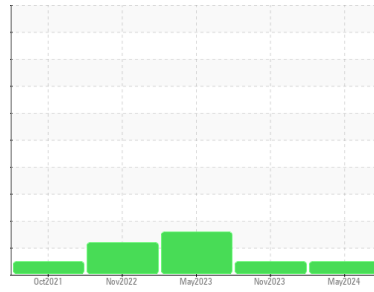




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[KC2404-0534]**  
 Machine Id  
**7371974 (S/N 1514)**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC06182032</b>	KC101942	KC100948
Sample Date	Client Info			<b>07 May 2024</b>	22 Nov 2023	10 May 2023
Machine Age	hrs	Client Info		<b>8907</b>	6857	4826
Oil Age	hrs	Client Info		<b>0</b>	3400	1422
Oil Changed	Client Info			<b>N/A</b>	Changed	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

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

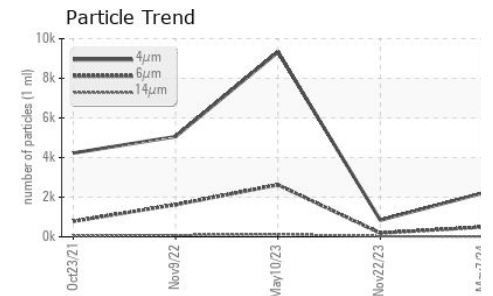
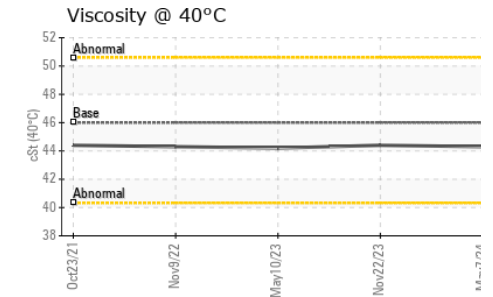
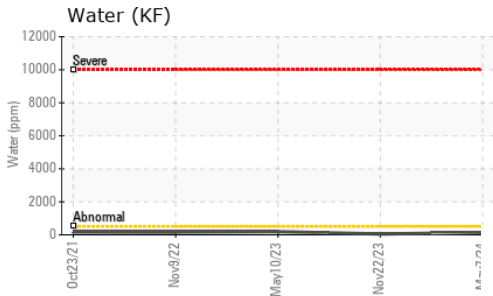
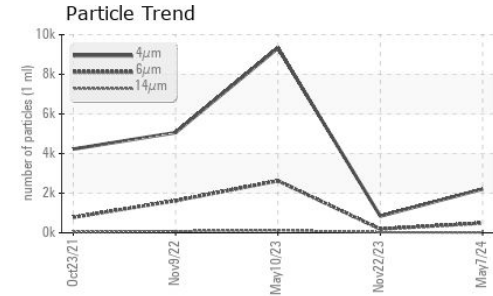
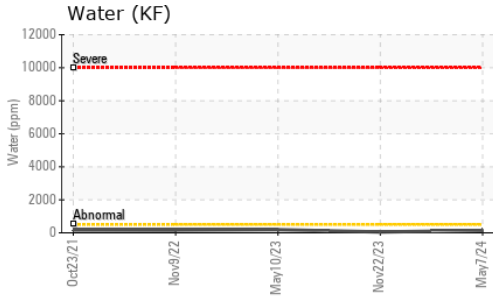
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	90	<b>&lt;1</b>	<1	37
Calcium	ppm	ASTM D5185m	2	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>0</b>	<1	2
Zinc	ppm	ASTM D5185m		<b>0</b>	0	4

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m		<b>8</b>	0	14
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	6
Water	%	ASTM D6304	>0.05	<b>0.014</b>	0.004	0.019
ppm Water	ppm	ASTM D6304	>500	<b>142</b>	50	191.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>2208</b>	839	9323
Particles >6µm		ASTM D7647	>1300	<b>493</b>	187	▲ 2625
Particles >14µm		ASTM D7647	>80	<b>13</b>	26	▲ 123
Particles >21µm		ASTM D7647	>20	<b>3</b>	9	▲ 24
Particles >38µm		ASTM D7647	>4	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>18/16/11</b>	17/15/12	▲ 20/19/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.31</b>	0.28	0.28

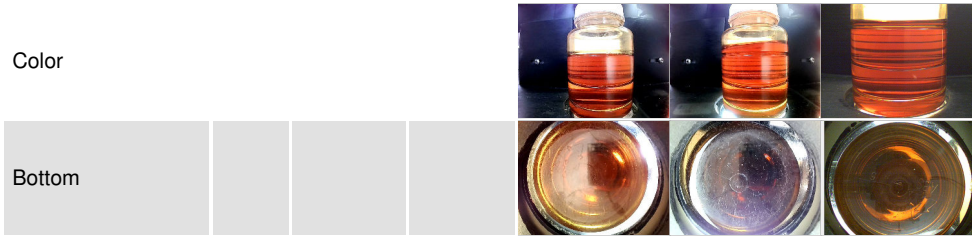
# OIL ANALYSIS REPORT



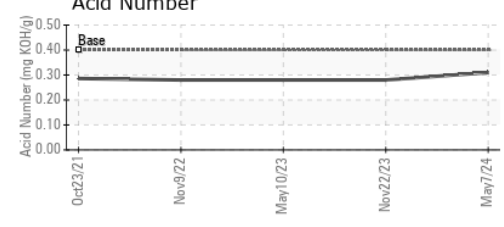
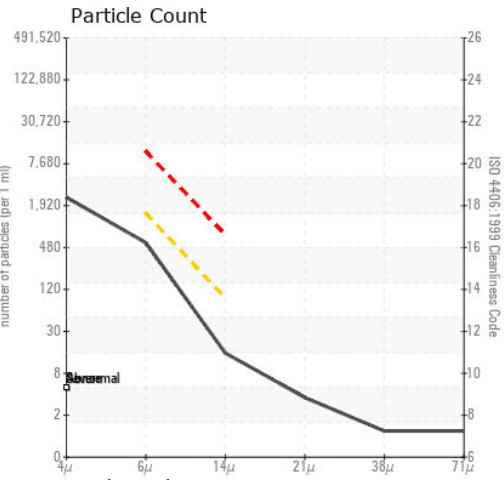
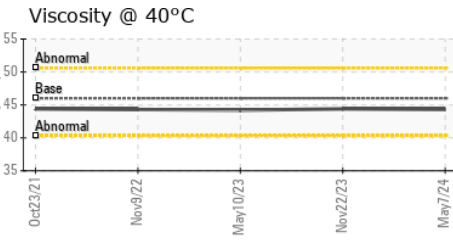
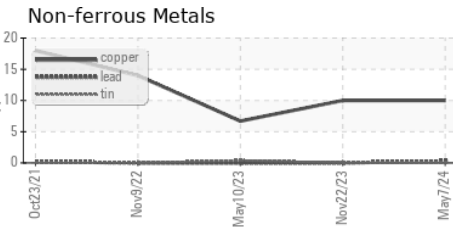
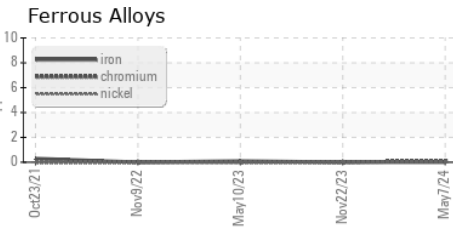
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46	44.3	44.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC06182032  
**Lab Number** : 06182032  
**Unique Number** : 11033358  
**Test Package** : IND 2  
**Received** : 16 May 2024  
**Tested** : 20 May 2024  
**Diagnosed** : 20 May 2024 - Don Baldrige

**METRO STEEL USA**  
 476 S RIDGE INDUSTRIAL DR  
 TAVARES, FL  
 US 32778  
 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)