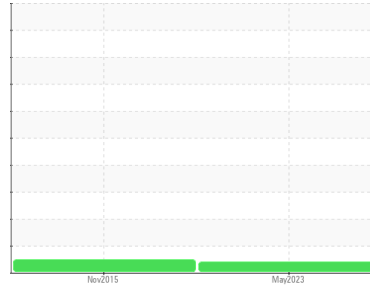


# OIL ANALYSIS REPORT

Sample Rating Trend



**VISCOSITY**



Machine Id  
**KAESER 1133 EAST**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (8 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 no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

▲ **Fluid Condition**

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC100910</b>	WCI2279739	---
Sample Date	Client Info			<b>15 May 2023</b>	03 Nov 2015	---
Machine Age	hrs	Client Info		<b>25197</b>	5859	---
Oil Age	hrs	Client Info		<b>2500</b>	2268	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>MARGINAL</b>	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>6</b>	8	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Antimony	ppm	ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

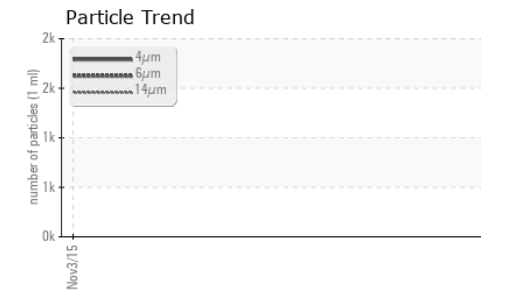
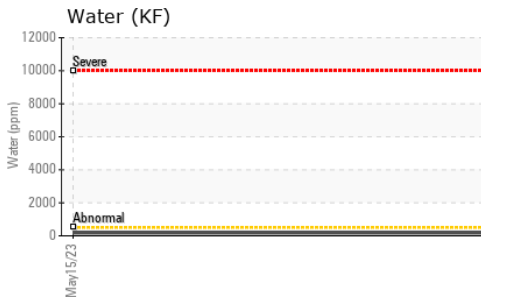
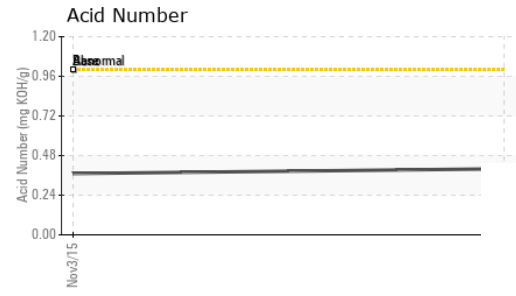
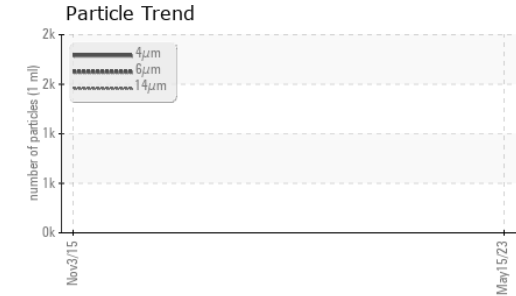
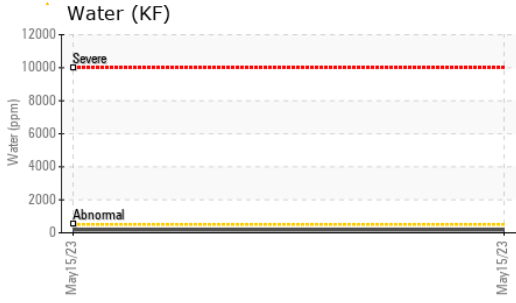
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	90	<b>31</b>	8	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>58</b>	35	---
Calcium	ppm	ASTM D5185m	0	<b>15</b>	0	---
Phosphorus	ppm	ASTM D5185m	0	<b>13</b>	1	---
Zinc	ppm	ASTM D5185m	0	<b>80</b>	12	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>1</b>	2	---
Sodium	ppm	ASTM D5185m		<b>19</b>	12	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	16	---
Water	%	ASTM D6304	>0.05	<b>0.017</b>	---	---
ppm Water	ppm	ASTM D6304	>500	<b>178.1</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>1617</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>507</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>43</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>9</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>17/13	<b>16/13</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.40</b>	0.371	---

# OIL ANALYSIS REPORT



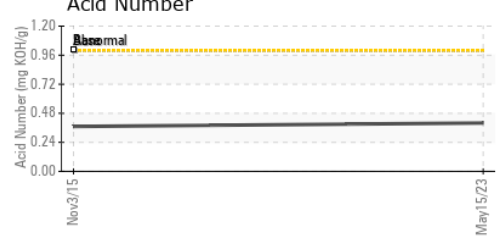
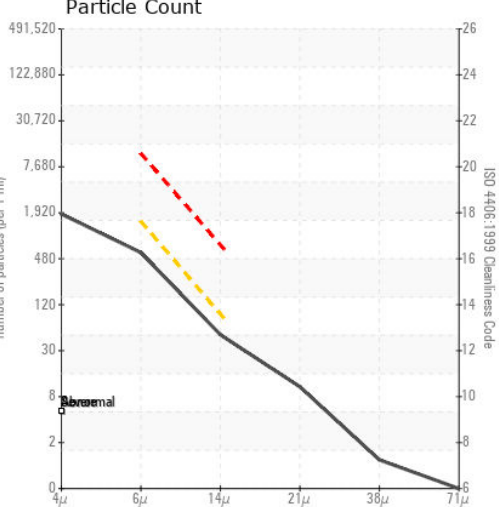
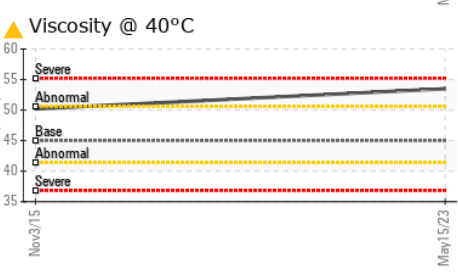
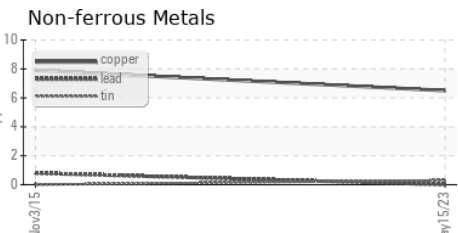
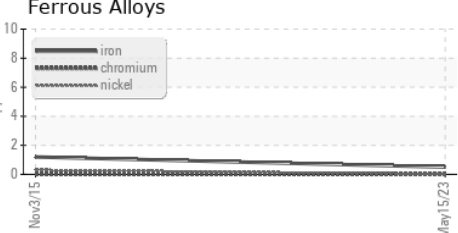
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45 ▲ 53.5	50.21	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC100910 **Received** : 22 May 2023  
**Lab Number** : 05853240 **Diagnosed** : 25 May 2023  
**Unique Number** : 10482595 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**REPUBLIC SERVICES**  
 43650 OBERLIN-ELYRIA RD  
 OBERLIN, OH  
 US 44014  
 Contact: LEWIE

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: (440)536-0009  
 F: