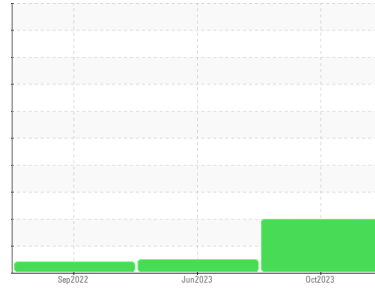


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER BSV 100 6320380 (S/N 1076)**

Component  
**Compressor**

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

**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 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>KCPA000795</b>	KCPA005307	KCP50108
Sample Date	Client Info			<b>06 Oct 2023</b>	05 Jun 2023	07 Sep 2022
Machine Age	hrs	Client Info		<b>37004</b>	35271	29381
Oil Age	hrs	Client Info		<b>0</b>	0	3000
Oil Changed	Client Info			<b>N/A</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	6	<1
Chromium	ppm	ASTM D5185m	>10	<b>0</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>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	6	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

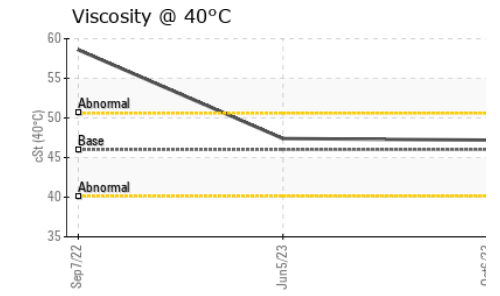
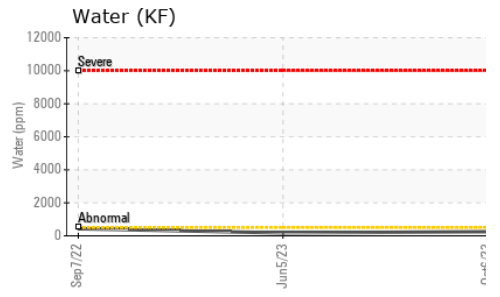
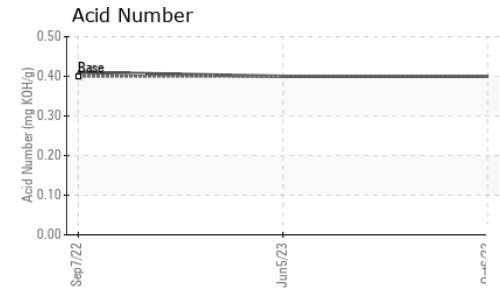
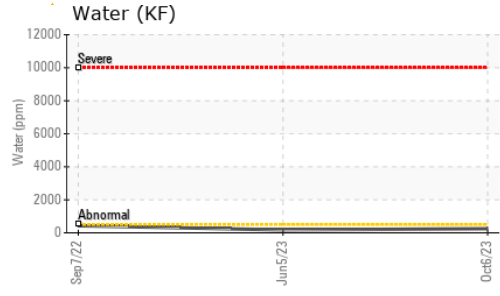
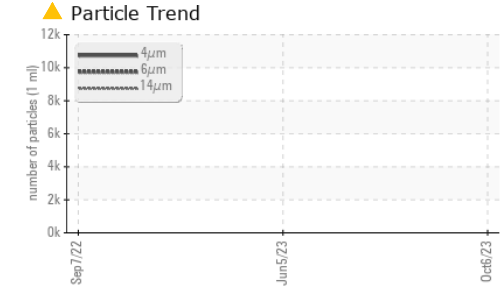
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>93</b>	113	26
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	90	<b>99</b>	133	122
Calcium	ppm	ASTM D5185m	2	<b>5</b>	4	5
Phosphorus	ppm	ASTM D5185m		<b>&lt;1</b>	17	2
Zinc	ppm	ASTM D5185m		<b>0</b>	9	0
Sulfur	ppm	ASTM D5185m		<b>16146</b>	21424	16801

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>15</b>	21	26
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	1
Water	%	ASTM D6304	>0.05	<b>0.024</b>	0.017	0.043
ppm Water	ppm	ASTM D6304	>500	<b>249.7</b>	174.9	430.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>10368</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 4216</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>▲ 957</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>▲ 364</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>▲ 14</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 21/19/17</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.40</b>	0.40	0.41

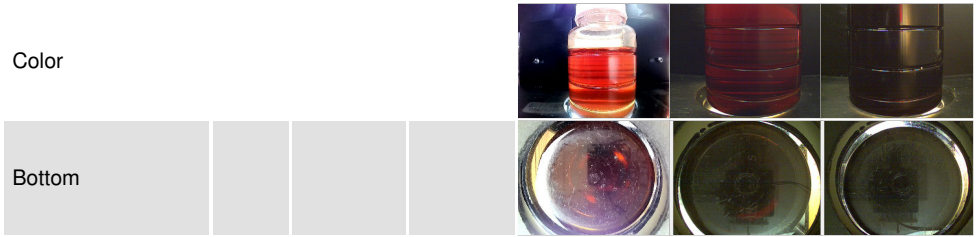
# OIL ANALYSIS REPORT



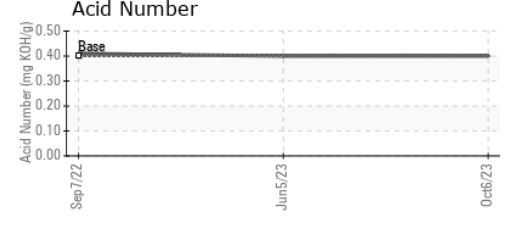
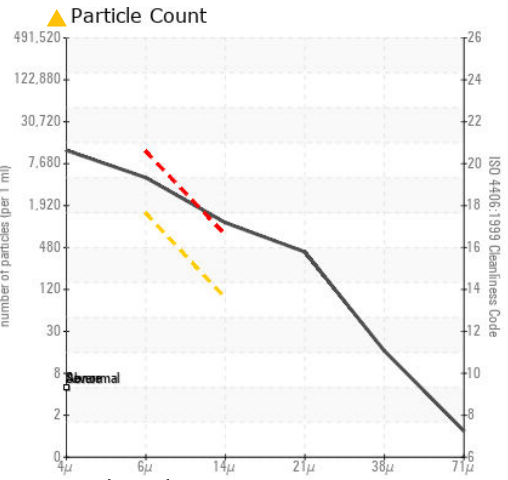
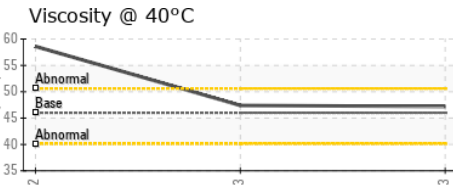
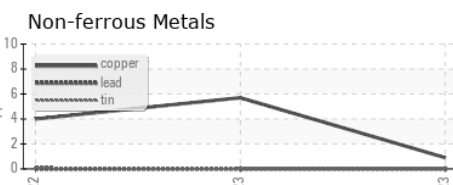
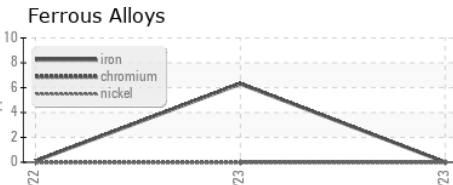
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.2	47.4	58.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA000795 **Received** : 13 Oct 2023  
**Lab Number** : 05978953 **Tested** : 16 Oct 2023  
**Unique Number** : 10696248 **Diagnosed** : 17 Oct 2023 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**GREINER BIO-ONE**  
 4238 CAPITOL DR.  
 MONROE, NC  
 US 28112  
 Contact: CHRISTOPHER BYRNE  
 christopher.byrne@gbo.com  
 T:  
 F:

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)