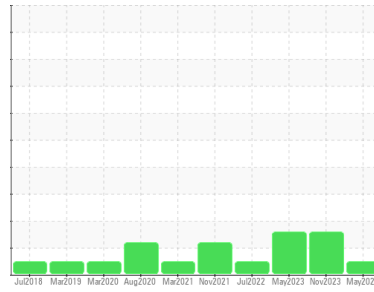




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER BSD 60T 6090053 (S/N 1158)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-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 oil. 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 oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCPA014459</b>	KCPA011819	KCP55458
Sample Date	Client Info			<b>13 May 2024</b>	27 Nov 2023	11 May 2023
Machine Age	hrs	Client Info		<b>28970</b>	26973	24614
Oil Age	hrs	Client Info		<b>1998</b>	0	3000
Oil Changed	Client Info			<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
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>2</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

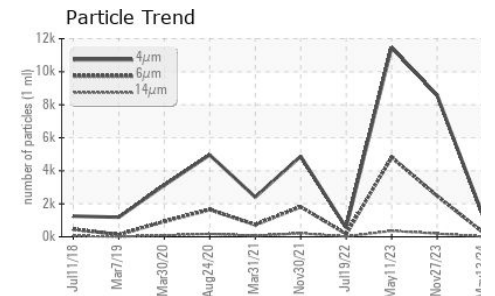
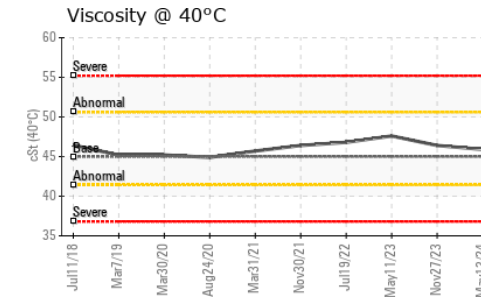
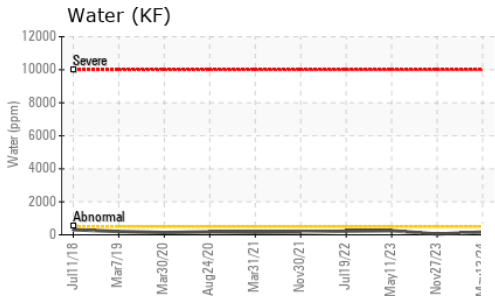
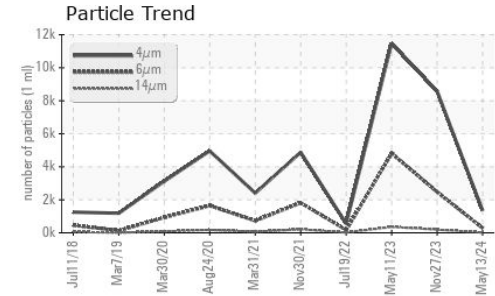
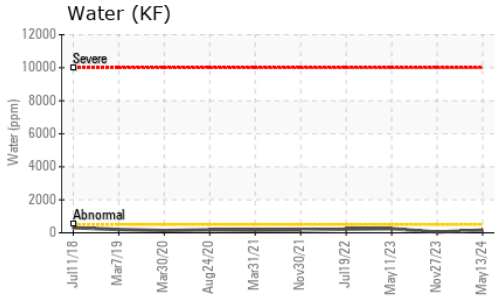
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>73</b>	53	60
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>86</b>	79	96
Calcium	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	0
Phosphorus	ppm	ASTM D5185m	0	<b>0</b>	2	0
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0	5
Sulfur	ppm	ASTM D5185m	23500	<b>22362</b>	17886	22691

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>11</b>	13	17
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	4
Water	%	ASTM D6304	>0.05	<b>0.016</b>	0.004	0.025
ppm Water	ppm	ASTM D6304	>500	<b>167</b>	47	250.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>1349</b>	8574	11480
Particles >6µm		ASTM D7647	>1300	<b>292</b>	▲ 2479	▲ 4813
Particles >14µm		ASTM D7647	>80	<b>14</b>	▲ 194	▲ 360
Particles >21µm		ASTM D7647	>20	<b>3</b>	▲ 54	▲ 59
Particles >38µm		ASTM D7647	>4	<b>0</b>	2	4
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>18/15/11</b>	▲ 20/18/15	▲ 21/19/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.38</b>	0.36	0.35

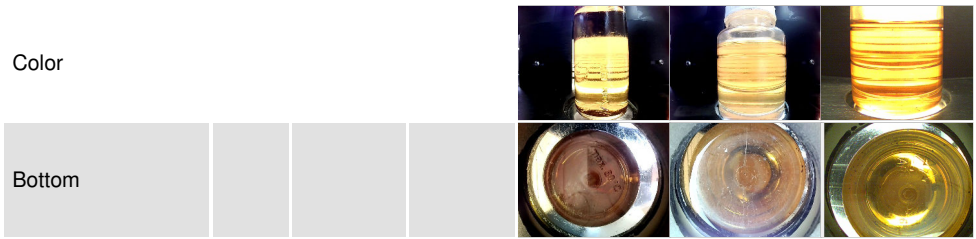
# OIL ANALYSIS REPORT



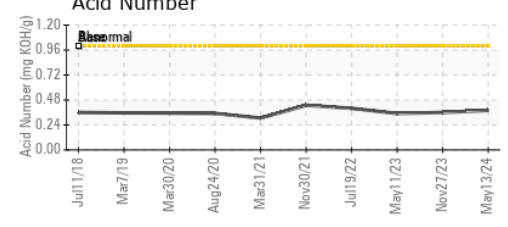
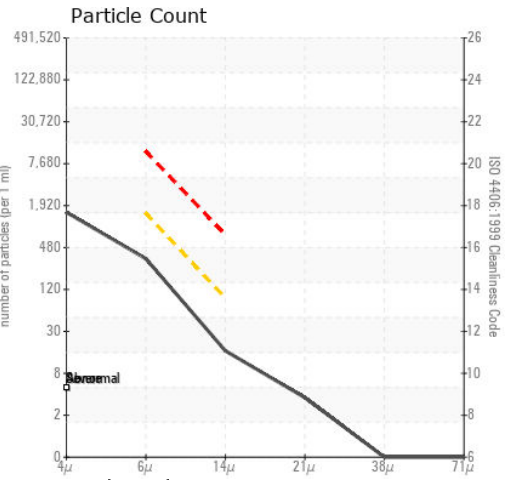
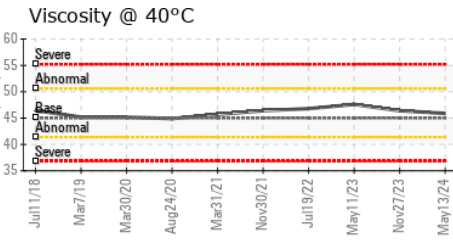
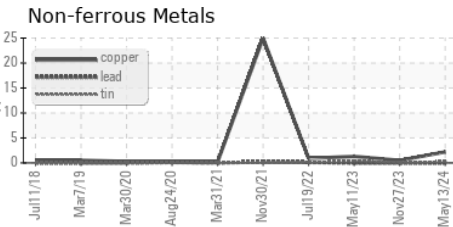
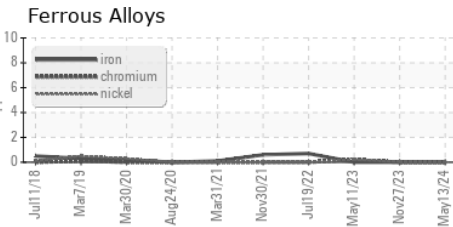
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	45.9	46.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA014459  
**Lab Number** : 06185026  
**Unique Number** : 11036352  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 20 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 22 May 2024 - Jonathan Hester

**AMAZON DEN2**  
 22205 E 19TH AVE  
 AURORA, CO  
 US 80019  
 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)