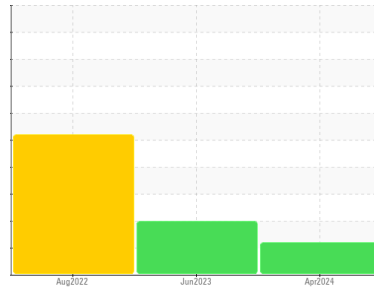




# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**8165996 (S/N 1037)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. 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 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>KCPA016733</b>	KCPA003309	KCP39789
Sample Date	Client Info			<b>09 Apr 2024</b>	08 Jun 2023	18 Aug 2022
Machine Age	hrs	Client Info		<b>17001</b>	10215	3426
Oil Age	hrs	Client Info		<b>6700</b>	0	3426
Oil Changed	Client Info			<b>Changed</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	1	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	4	6
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>10</b>	9	11
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

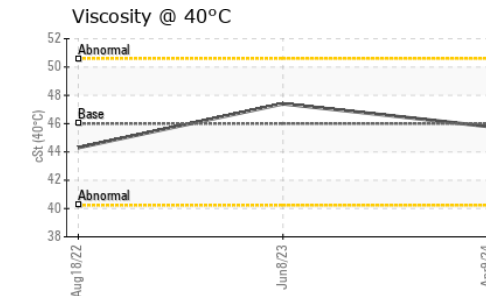
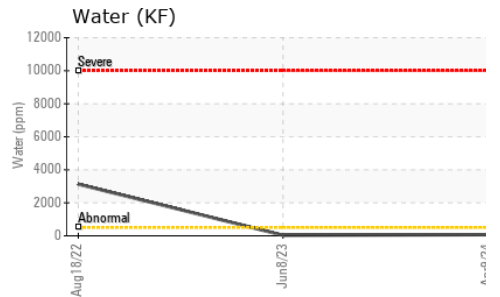
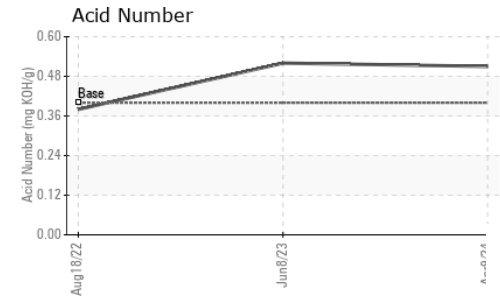
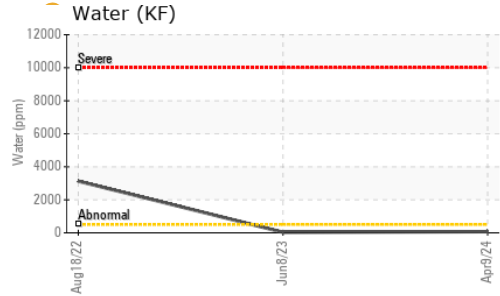
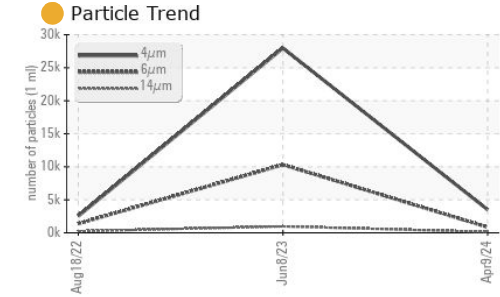
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	90	<b>1</b>	<1	3
Calcium	ppm	ASTM D5185m	2	<b>4</b>	3	0
Phosphorus	ppm	ASTM D5185m		<b>0</b>	4	2
Zinc	ppm	ASTM D5185m		<b>0</b>	9	2
Sulfur	ppm	ASTM D5185m		<b>28384</b>	22298	15944

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	<1
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304	>0.05	<b>0.007</b>	0.003	▲ 0.313
ppm Water	ppm	ASTM D6304	>500	<b>71</b>	33.2	▲ 3130

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>3504</b>	27968	2532
Particles >6µm		ASTM D7647	>1300	<b>850</b>	▲ 10311	▲ 1379
Particles >14µm		ASTM D7647	>80	● <b>140</b>	▲ 971	▲ 235
Particles >21µm		ASTM D7647	>20	● <b>50</b>	▲ 236	▲ 79
Particles >38µm		ASTM D7647	>4	<b>2</b>	▲ 12	▲ 12
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	● <b>19/17/14</b>	▲ 22/21/17	▲ 19/18/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.51</b>	0.52	0.38

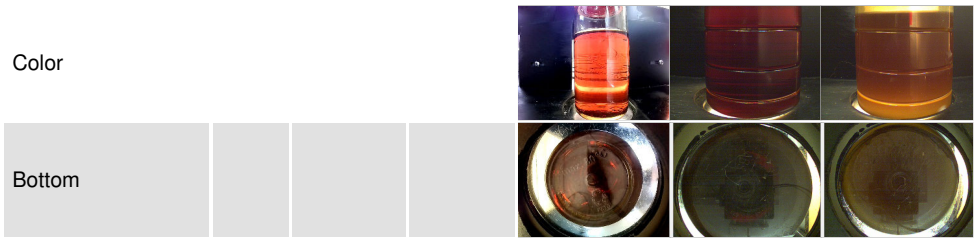
# OIL ANALYSIS REPORT



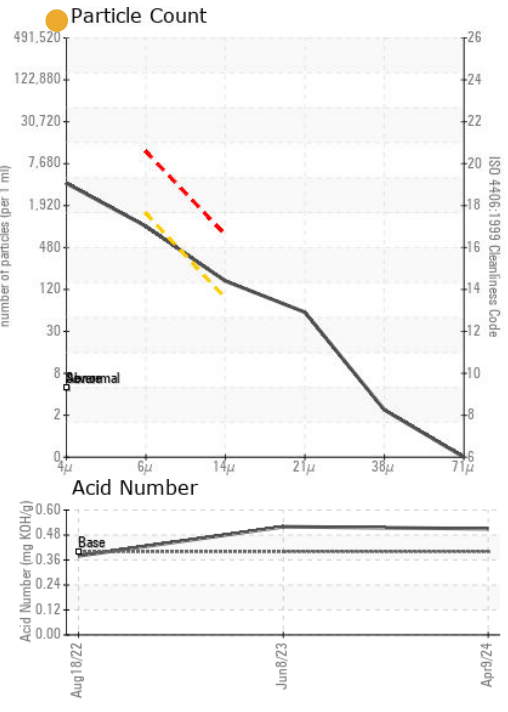
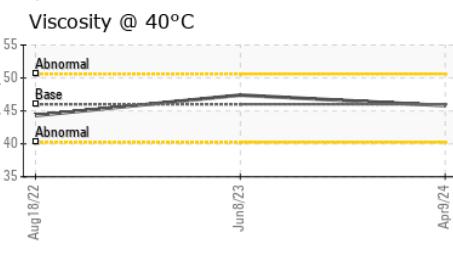
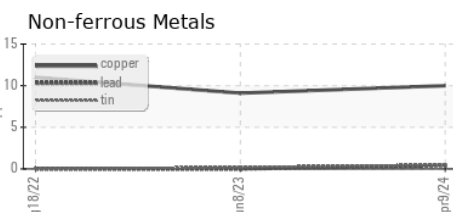
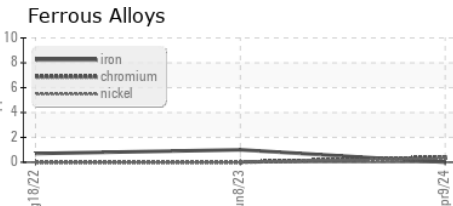
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	45.8	47.4	44.3

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA016733 **Received** : 12 Apr 2024  
**Lab Number** : 06148089 **Tested** : 15 Apr 2024  
**Unique Number** : 10978167 **Diagnosed** : 17 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CERTAINTED CORP**  
 921 SHORE RD  
 SEMORA, NC  
 US 27343

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: JACK LEMASYER  
 jack.lemasyer@saint.gobain.com

\* - 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:  
F: