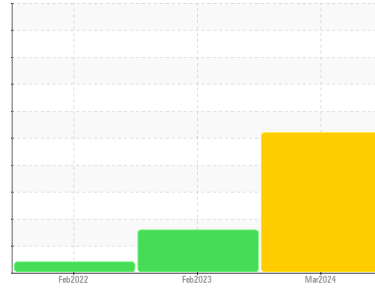


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WATER**



Machine Id  
**7951452 (S/N 1366)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) FG-460 (--- QTS)**

### DIAGNOSIS

#### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

#### ▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

#### ▲ Contamination

There is a light concentration of water present in the oil. Excessive free water present.

#### ● Fluid Condition

An increase in the AN level is noted.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC130461</b>	KCP55839	KCP41166
Sample Date	Client Info			<b>28 Mar 2024</b>	13 Feb 2023	18 Feb 2022
Machine Age	hrs	Client Info		<b>7887</b>	5597	2585
Oil Age	hrs	Client Info		<b>3093</b>	3012	2585
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>8</b>	6	2
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>▲ 28</b>	10	7
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>1</b>	4	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

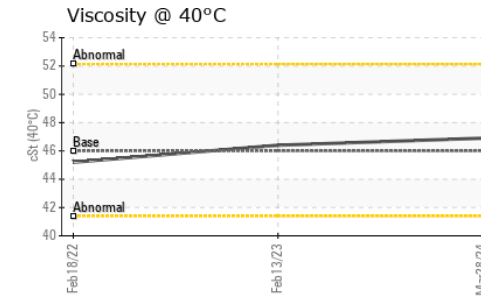
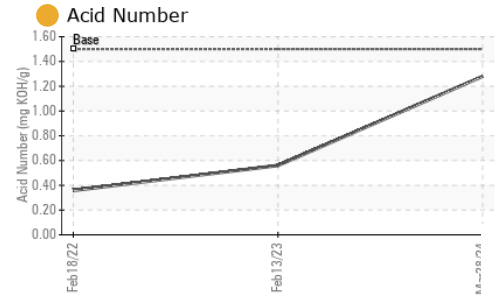
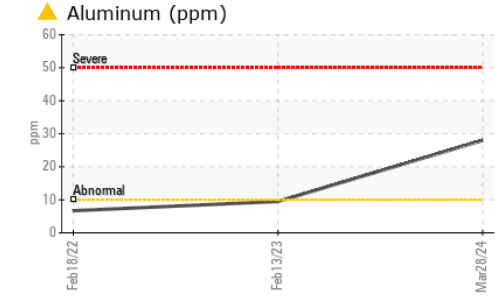
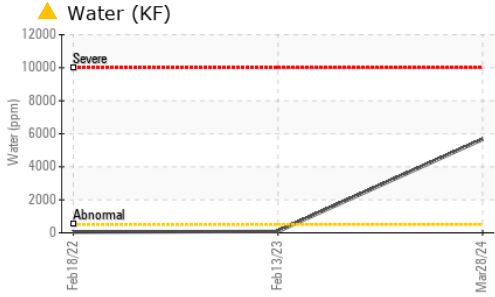
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	<1
Calcium	ppm	ASTM D5185m		<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	500	<b>394</b>	247	83
Zinc	ppm	ASTM D5185m		<b>159</b>	180	121

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	2
Water	%	ASTM D6304	>0.05	<b>▲ 0.566</b>	0.008	0.004
ppm Water	ppm	ASTM D6304	>500	<b>▲ 5660</b>	81.9	45.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>---</b>	13259	---
Particles >6µm		ASTM D7647	>1300	<b>---</b>	<b>▲ 6053</b>	---
Particles >14µm		ASTM D7647	>80	<b>---</b>	<b>▲ 741</b>	---
Particles >21µm		ASTM D7647	>20	<b>---</b>	<b>▲ 219</b>	---
Particles >38µm		ASTM D7647	>4	<b>---</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>---</b>	<b>▲ 21/20/17</b>	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>● 1.28</b>	0.56	0.358

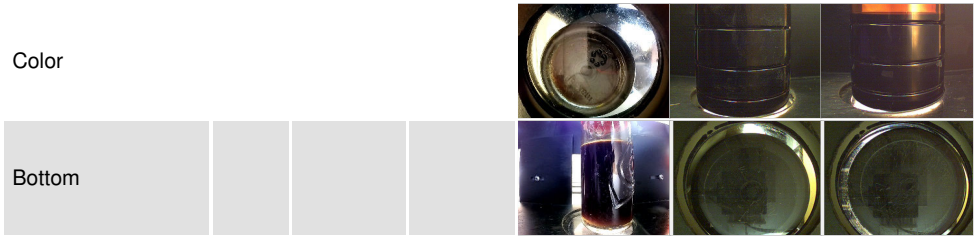
# OIL ANALYSIS REPORT



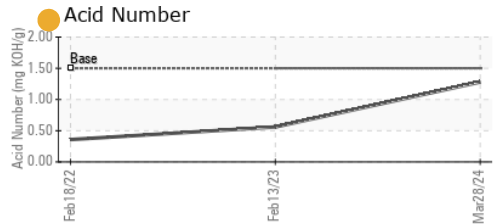
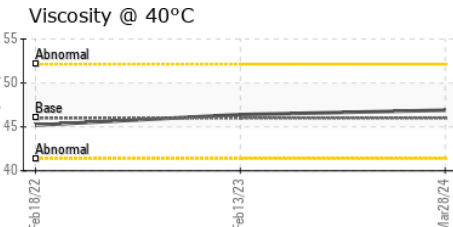
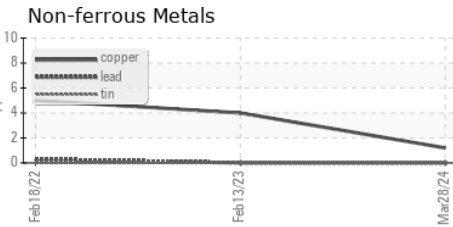
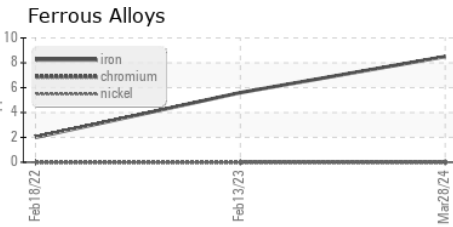
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ 2.0	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.9	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.** : KC130461  
**Lab Number** : 06143107  
**Unique Number** : 10967915  
**Test Package** : IND 2  
**Received** : 09 Apr 2024  
**Tested** : 11 Apr 2024  
**Diagnosed** : 11 Apr 2024 - Angela Borella

**GB FOODS**  
 670 KAISER DR  
 HEATH, OH  
 US 43056  
 Contact: KEITH DILLON  
 keithdillon@gbfoodinc.com

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)