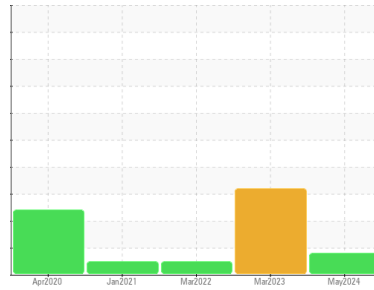




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**7032867 (S/N 1177)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**

The aluminum level has decreased, but is still abnormal. All other 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>KC72555</b>	KC105929	KC103223
Sample Date	Client Info			<b>04 May 2024</b>	11 Mar 2023	12 Mar 2022
Machine Age	hrs	Client Info		<b>4726</b>	2814	1293
Oil Age	hrs	Client Info		<b>1912</b>	1521	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>3</b>	9	8
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	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>▲ 15</b>	<b>▲ 34</b>	5
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

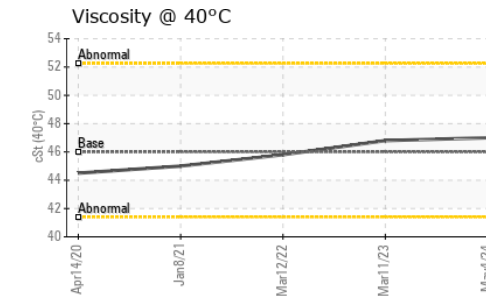
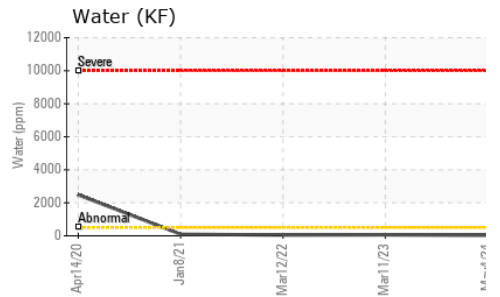
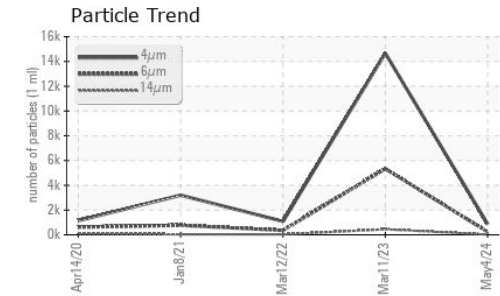
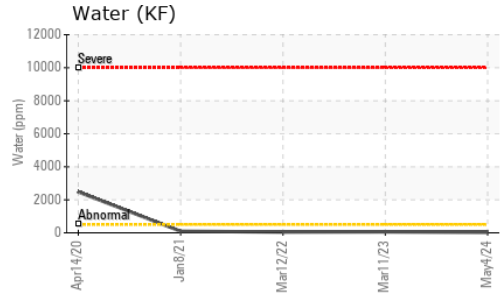
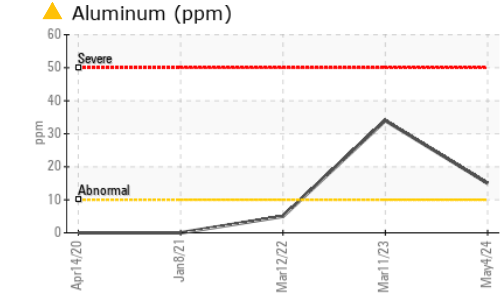
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	7
Calcium	ppm	ASTM D5185m		<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	500	<b>424</b>	442	459
Zinc	ppm	ASTM D5185m		<b>287</b>	358	119

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m		<b>2</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	6	0
Water	%	ASTM D6304	>0.05	<b>0.003</b>	0.005	0.004
ppm Water	ppm	ASTM D6304	>500	<b>29</b>	56.4	46.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>876</b>	14664	1082
Particles >6µm		ASTM D7647	>1300	<b>241</b>	<b>▲ 5335</b>	357
Particles >14µm		ASTM D7647	>80	<b>17</b>	<b>▲ 447</b>	34
Particles >21µm		ASTM D7647	>20	<b>6</b>	<b>▲ 82</b>	8
Particles >38µm		ASTM D7647	>4	<b>0</b>	<b>▲ 7</b>	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	<b>▲ 2</b>	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>17/15/11</b>	<b>▲ 21/20/16</b>	16/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>1.15</b>	0.663	1.25

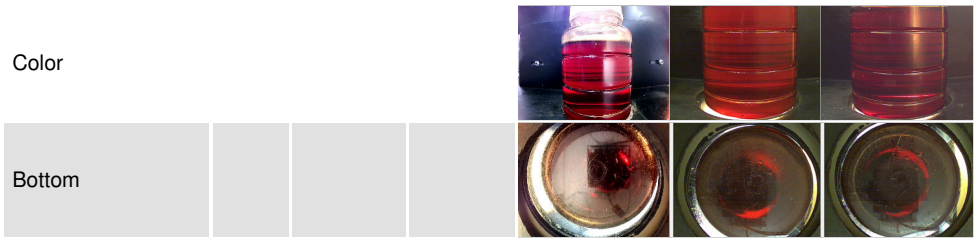
# OIL ANALYSIS REPORT



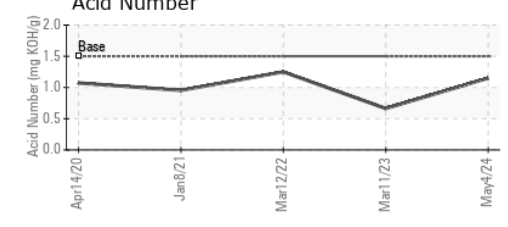
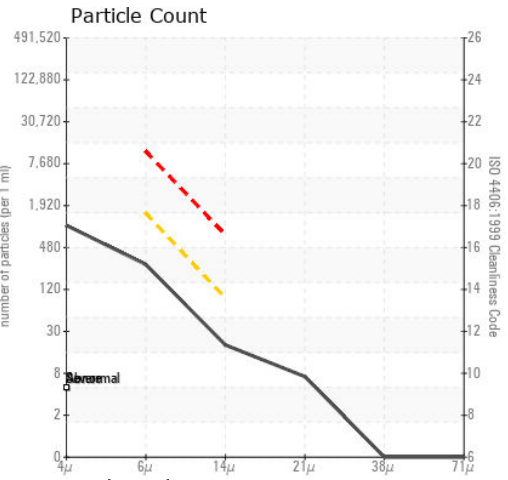
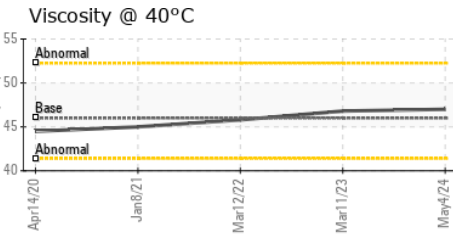
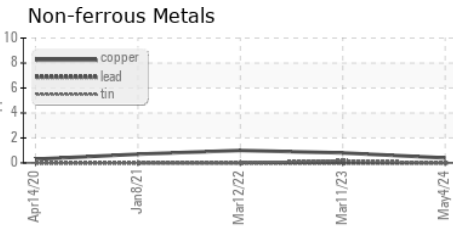
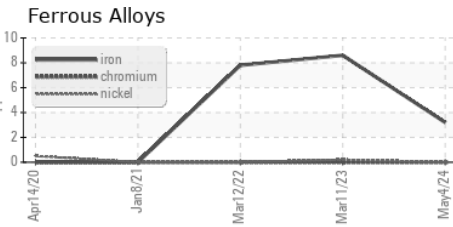
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.0	46.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC72555  
**Lab Number** : 06206553  
**Unique Number** : 11074014  
**Test Package** : IND 2  
**Received** : 11 Jun 2024  
**Tested** : 13 Jun 2024  
**Diagnosed** : 13 Jun 2024 - Don Baldrige

**CALIFORNIA CUSTOM FRUITS & FLAVORS**  
 1273 S GRAHAM RD  
 GREENWOOD, IN  
 US 46143  
 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)