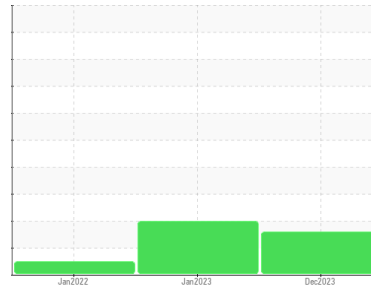


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7145192 (S/N 1204)**

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>KC126688</b>	KC107688	KC100435
Sample Date	Client Info			<b>27 Dec 2023</b>	10 Jan 2023	10 Jan 2022
Machine Age	hrs	Client Info		<b>7001</b>	4761	2103
Oil Age	hrs	Client Info		<b>0</b>	2658	2103
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

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

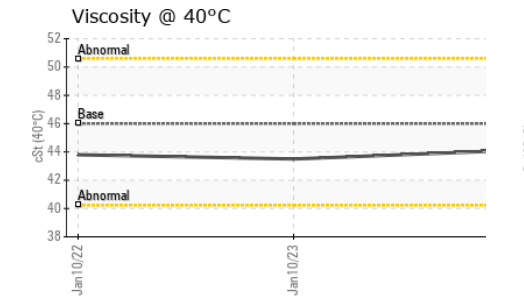
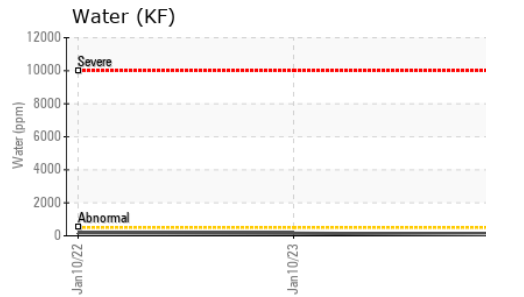
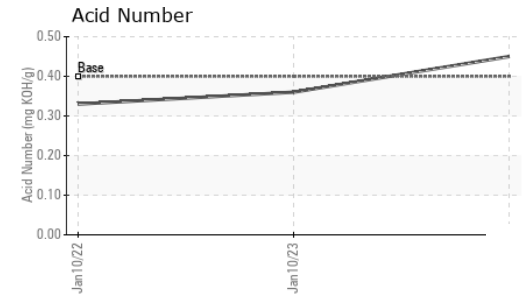
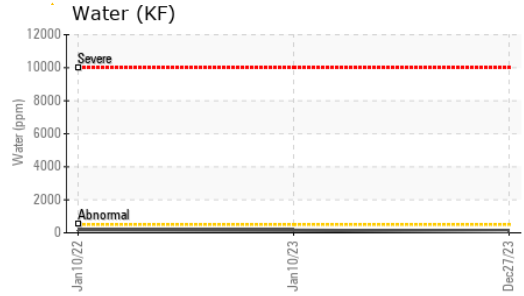
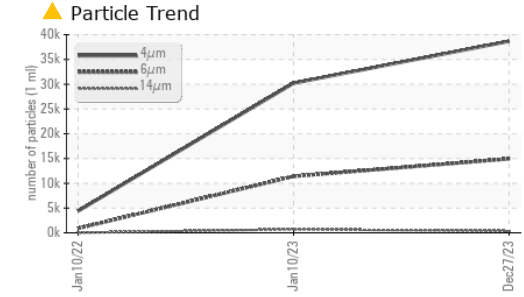
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>16</b>	15	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	90	<b>68</b>	67	69
Calcium	ppm	ASTM D5185m	2	<b>2</b>	<1	<1
Phosphorus	ppm	ASTM D5185m		<b>&lt;1</b>	30	2
Zinc	ppm	ASTM D5185m		<b>0</b>	3	1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	4	<1
Sodium	ppm	ASTM D5185m		<b>19</b>	19	14
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	4	4
Water	%	ASTM D6304	>0.05	<b>0.009</b>	0.015	0.018
ppm Water	ppm	ASTM D6304	>500	<b>90</b>	154.4	189.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>38677</b>	30215	4397
Particles >6µm		ASTM D7647	>1300	<b>▲ 14940</b>	▲ 11410	893
Particles >14µm		ASTM D7647	>80	<b>▲ 350</b>	▲ 702	21
Particles >21µm		ASTM D7647	>20	<b>▲ 59</b>	▲ 147	5
Particles >38µm		ASTM D7647	>4	<b>4</b>	▲ 5	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 22/21/16</b>	▲ 22/21/17	17/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.45</b>	0.36	0.330

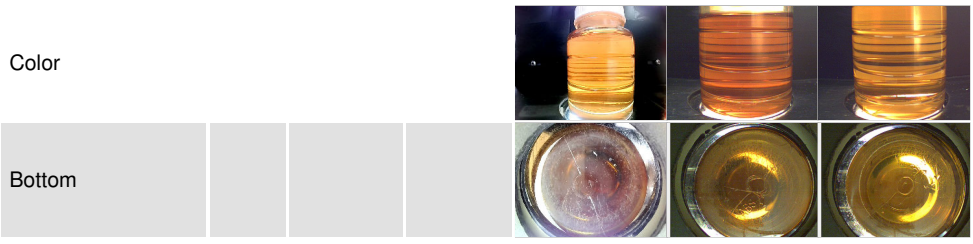
# OIL ANALYSIS REPORT



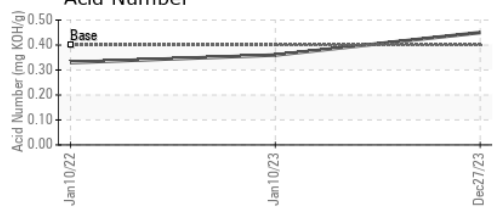
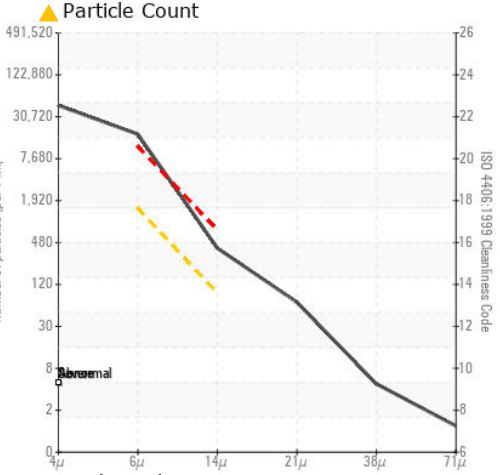
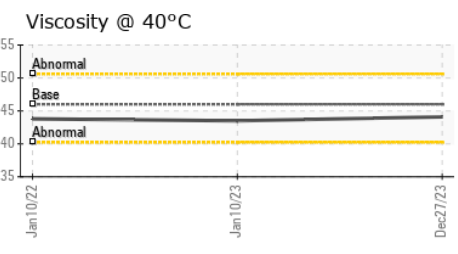
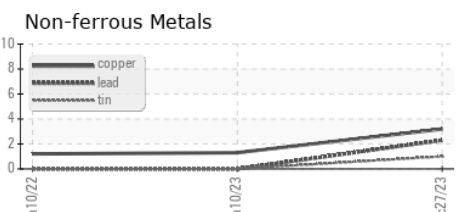
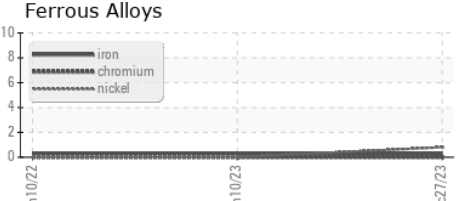
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.1	43.5	43.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC126688 **Received** : 01 Feb 2024  
**Lab Number** : 06077703 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859794 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**AMERICAN LUMBER**  
 4832 PLANK RD  
 NORWALK, OH  
 US 44857  
 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)