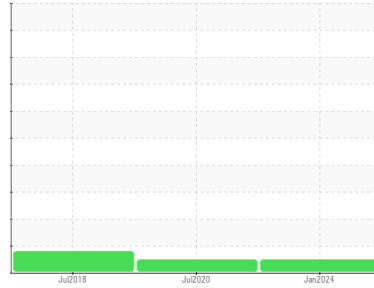




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**1273**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (50 GAL)**

**DIAGNOSIS**

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>KC121877</b>	WCI2308432	WCI2270215
Sample Date	Client Info			<b>20 Jan 2024</b>	02 Jul 2020	30 Jul 2018
Machine Age	hrs Client Info			<b>55762</b>	26033	9234
Oil Age	hrs Client Info			<b>0</b>	6800	9234
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

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

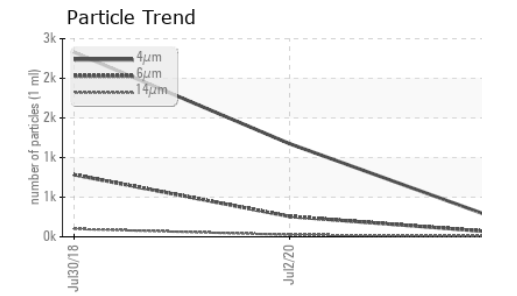
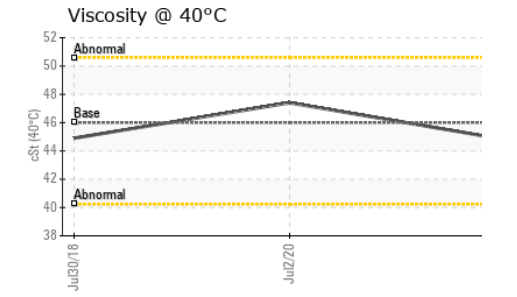
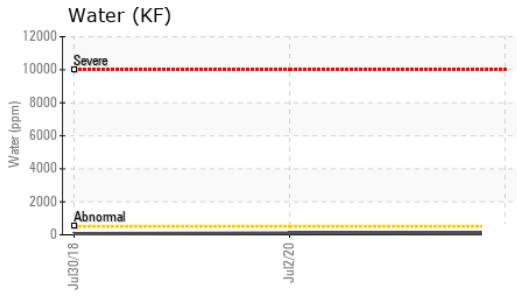
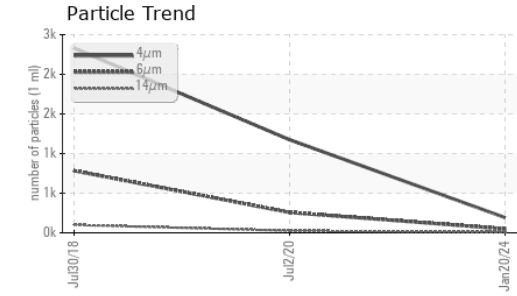
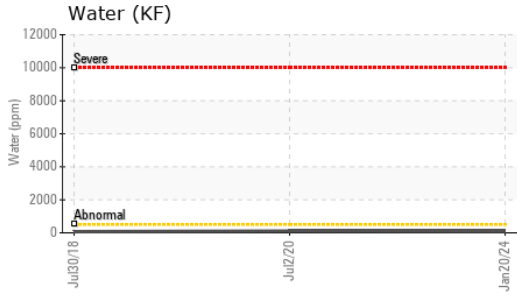
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	0	0
Magnesium	ppm	ASTM D5185m	90	<b>2</b>	0	0
Calcium	ppm	ASTM D5185m	2	<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>1</b>	5	3
Zinc	ppm	ASTM D5185m		<b>0</b>	<1	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	3	4
Sodium	ppm	ASTM D5185m		<b>3</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	<1
Water	%	ASTM D6304	>0.05	<b>0.008</b>	0.010	0.007
ppm Water	ppm	ASTM D6304	>500	<b>90</b>	104.4	70

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>192</b>	1175	2329
Particles >6µm		ASTM D7647	>1300	<b>50</b>	257	784
Particles >14µm		ASTM D7647	>80	<b>9</b>	25	▲ 100
Particles >21µm		ASTM D7647	>20	<b>4</b>	9	▲ 41
Particles >38µm		ASTM D7647	>4	<b>0</b>	1	3
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>17/13	<b>13/10</b>	17/15/12	▲ 18/17/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.40</b>	0.374	0.377

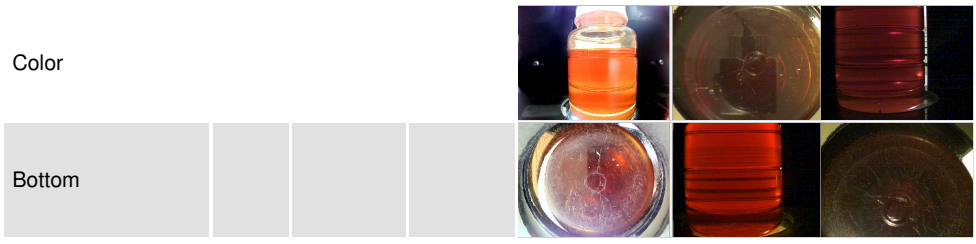
# OIL ANALYSIS REPORT



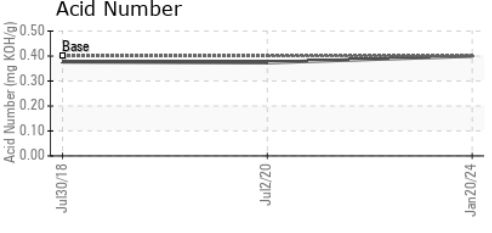
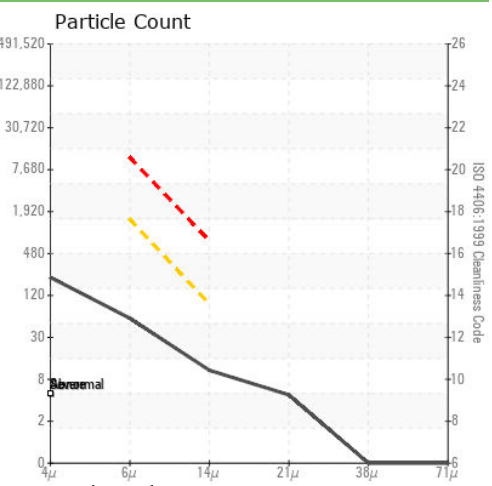
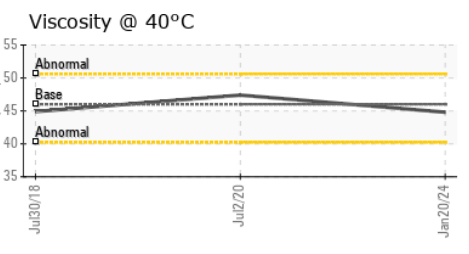
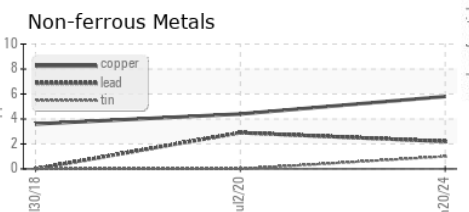
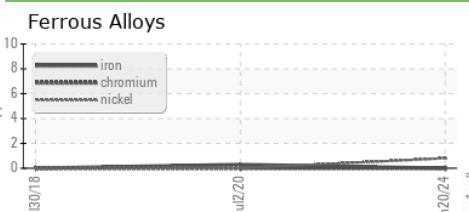
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	44.8	47.4	44.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC121877 **Received** : 01 Feb 2024  
**Lab Number** : 06077713 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859804 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**SIVANCE**  
 5002 NE 54TH PL  
 GAINESVILLE, FL  
 US 32609  
 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)

T:  
F: