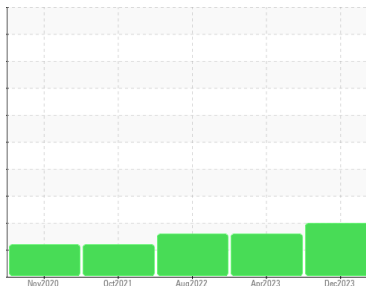


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7219566 (S/N 1333)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## 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>KCPA011478</b>	KCP53576	KC102161
Sample Date	Client Info			<b>20 Dec 2023</b>	17 Apr 2023	02 Aug 2022
Machine Age	hrs	Client Info		<b>22719</b>	18945	14793
Oil Age	hrs	Client Info		<b>0</b>	2445	5402
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</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>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>23</b>	6	8
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

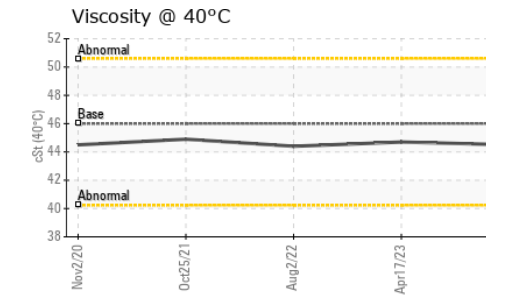
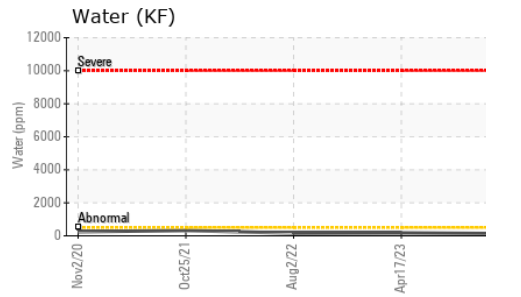
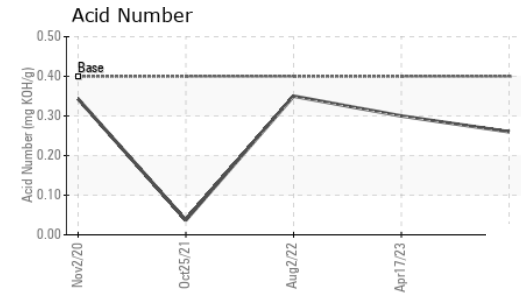
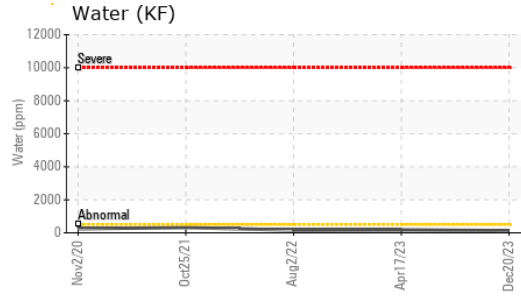
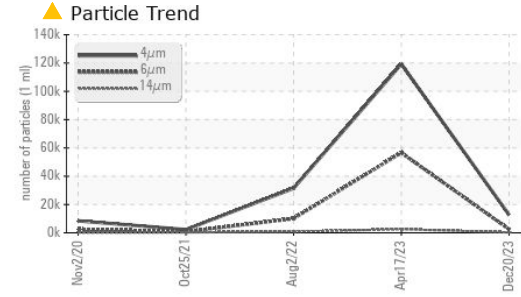
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	1
Barium	ppm	ASTM D5185m	90	<b>6</b>	13	32
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	90	<b>39</b>	58	48
Calcium	ppm	ASTM D5185m	2	<b>&lt;1</b>	1	<1
Phosphorus	ppm	ASTM D5185m		<b>26</b>	4	3
Zinc	ppm	ASTM D5185m		<b>24</b>	0	6
Sulfur	ppm	ASTM D5185m		<b>19116</b>	15328	17882

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m		<b>20</b>	24	20
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	6	6
Water	%	ASTM D6304	>0.05	<b>0.013</b>	0.017	0.016
ppm Water	ppm	ASTM D6304	>500	<b>133</b>	176.6	161.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>12641</b>	119236	31456
Particles >6µm		ASTM D7647	>1300	<b>▲ 2546</b>	▲ 56596	▲ 10065
Particles >14µm		ASTM D7647	>80	<b>▲ 265</b>	▲ 2549	▲ 773
Particles >21µm		ASTM D7647	>20	<b>▲ 100</b>	▲ 285	▲ 177
Particles >38µm		ASTM D7647	>4	<b>▲ 5</b>	1	4
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 21/19/15</b>	▲ 24/23/19	▲ 22/21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.26</b>	0.30	0.35

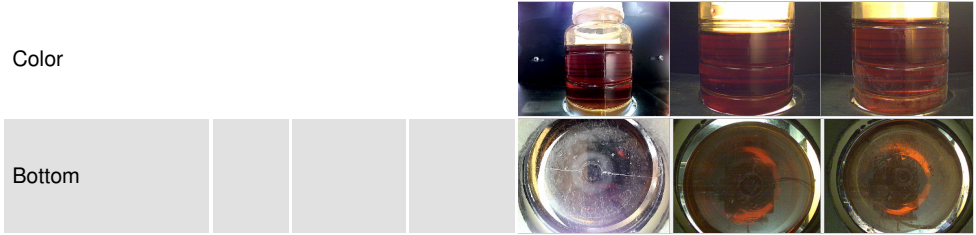
# OIL ANALYSIS REPORT



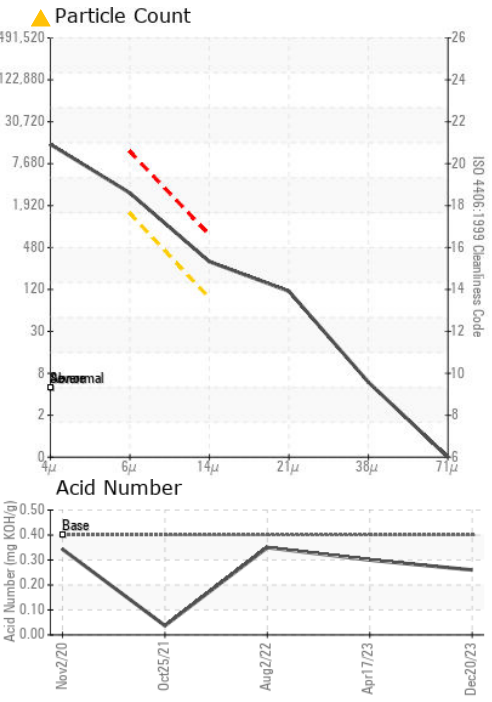
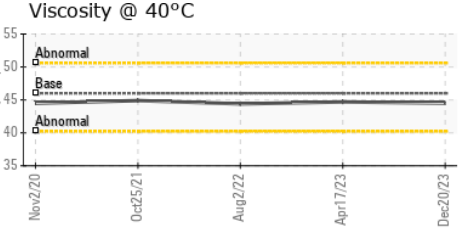
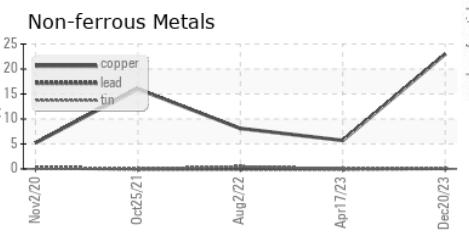
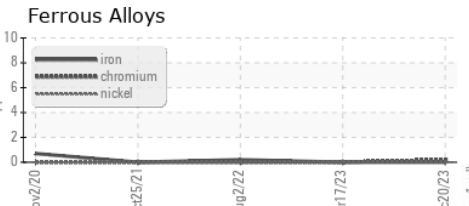
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>44.5</b>	44.7	44.4

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA011478 **Received** : 18 Jan 2024  
**Lab Number** : 06065032 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836414 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CALIPER WOODWORKING**  
 49 CLINTON ST  
 MALDEN, MA  
 US 02148  
 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)