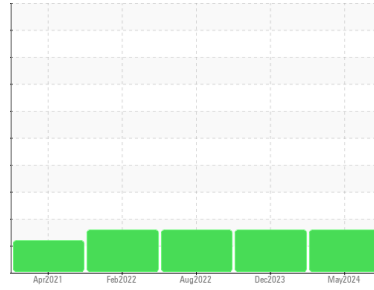




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7374227 (S/N 1001)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-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>KCPA017827</b>	KCPA001003	KCP33328
Sample Date	Client Info			<b>24 May 2024</b>	23 Dec 2023	26 Aug 2022
Machine Age	hrs	Client Info		<b>18695</b>	15695	9797
Oil Age	hrs	Client Info		<b>8260</b>	0	759
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
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>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>8</b>	4	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	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

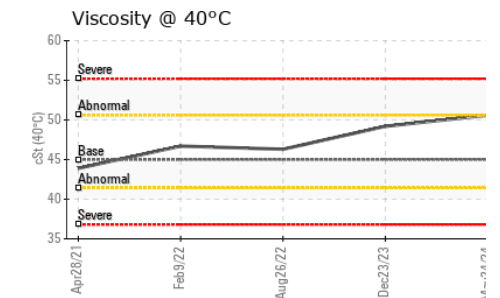
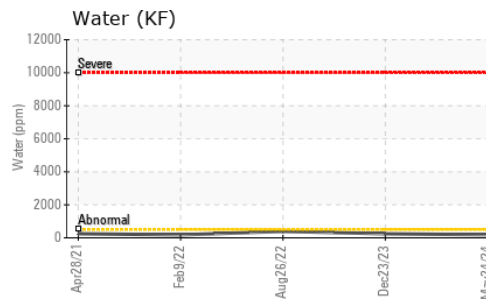
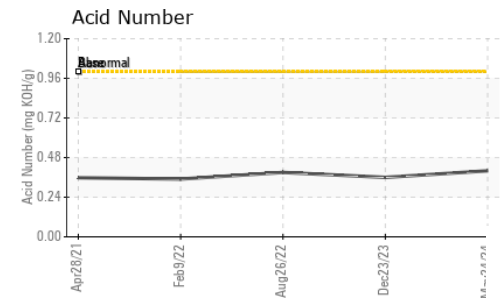
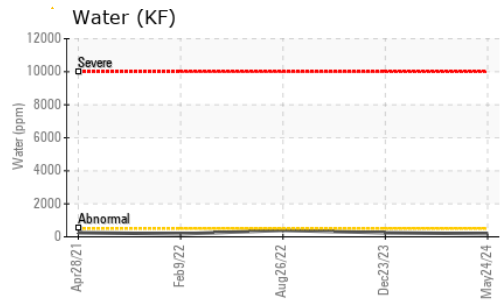
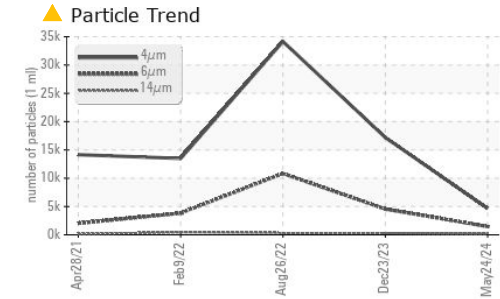
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>1</b>	0	13
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	100	<b>28</b>	52	74
Calcium	ppm	ASTM D5185m	0	<b>2</b>	2	<1
Phosphorus	ppm	ASTM D5185m	0	<b>3</b>	30	2
Zinc	ppm	ASTM D5185m	0	<b>35</b>	3	9
Sulfur	ppm	ASTM D5185m	23500	<b>21477</b>	20509	17688

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Sodium	ppm	ASTM D5185m		<b>11</b>	10	11
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	0
Water	%	ASTM D6304	>0.05	<b>0.018</b>	0.024	0.039
ppm Water	ppm	ASTM D6304	>500	<b>187</b>	245	391.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>4664</b>	17192	34153
Particles >6µm		ASTM D7647	>1300	<b>▲ 1466</b>	▲ 4556	▲ 10835
Particles >14µm		ASTM D7647	>80	<b>▲ 169</b>	▲ 300	▲ 305
Particles >21µm		ASTM D7647	>20	<b>▲ 46</b>	▲ 85	▲ 35
Particles >38µm		ASTM D7647	>4	<b>1</b>	3	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 19/18/15</b>	▲ 21/19/15	▲ 22/21/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.40</b>	0.36	0.39

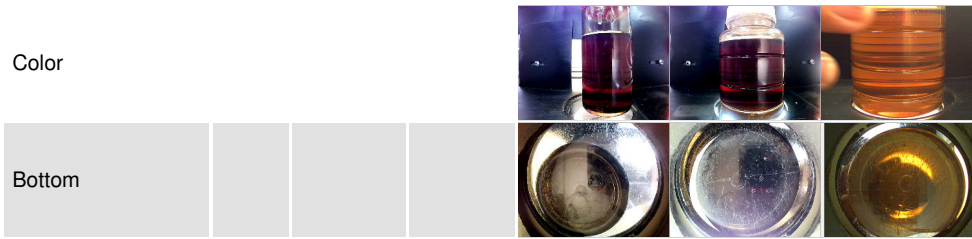
# OIL ANALYSIS REPORT



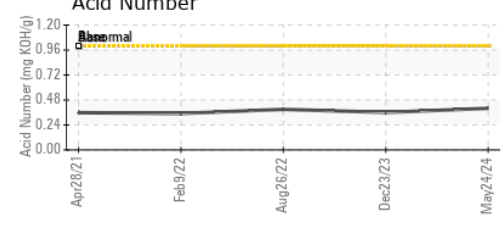
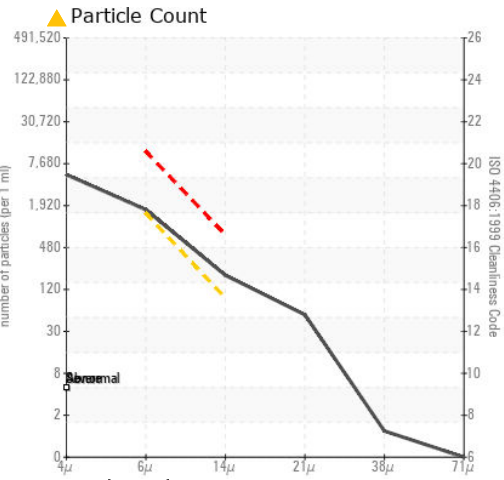
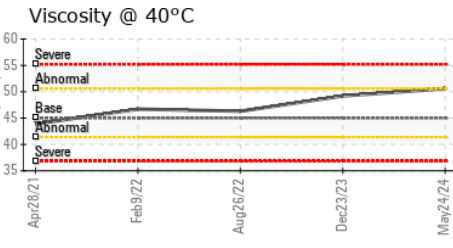
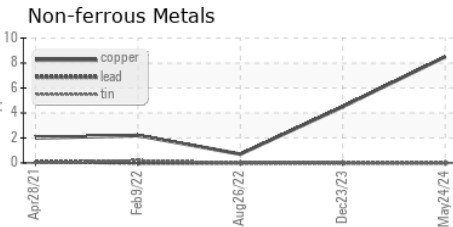
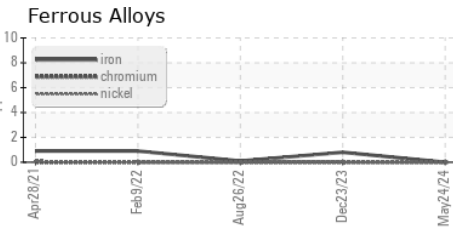
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	50.6	49.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA017827 **Received** : 06 Jun 2024  
**Lab Number** : 06202050 **Tested** : 07 Jun 2024  
**Unique Number** : 11069511 **Diagnosed** : 09 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CHEP USA**  
 1540 AMHERST RD  
 KNOXVILLE, TN  
 US 37909  
 Contact: TYLER GUNTER  
 tyler.gunter@chep.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)