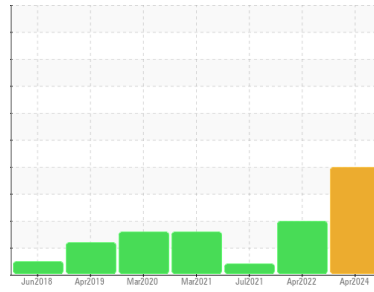




# OIL ANALYSIS REPORT

Sample Rating Trend



**SEDIMENT**



Machine Id  
**KAESER AIRTOWER 7.5 5389027 (S/N 1351)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

**Wear**

All component wear rates are normal.

**▲ Contamination**

There is a high amount of particulates present in the oil. There is a moderate amount of visible silt present in the sample.

**● Fluid Condition**

The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCPA017060</b>	KCP45669	KC99870
Sample Date	Client Info		<b>09 Apr 2024</b>	13 Apr 2022	12 Jul 2021
Machine Age	hrs	Client Info	<b>24528</b>	18605	17321
Oil Age	hrs	Client Info	<b>3000</b>	0	160
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>27</b>	<1	0
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>2</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>3</b>	7	6
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
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	<1

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	32
Barium	ppm	ASTM D5185m 90	<b>0</b>	10	29
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>3</b>	23	61
Calcium	ppm	ASTM D5185m 0	<b>6</b>	0	1
Phosphorus	ppm	ASTM D5185m 0	<b>329</b>	8	16
Zinc	ppm	ASTM D5185m 0	<b>20</b>	19	17
Sulfur	ppm	ASTM D5185m 23500	<b>1088</b>	16152	18530

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>1</b>	6	16
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	3
Water	%	ASTM D6304 >0.05	<b>0.025</b>	0.017	0.027
ppm Water	ppm	ASTM D6304 >500	<b>256</b>	172.0	273.6

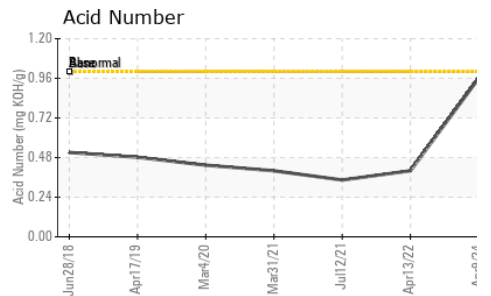
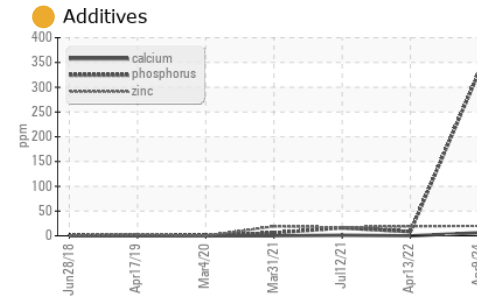
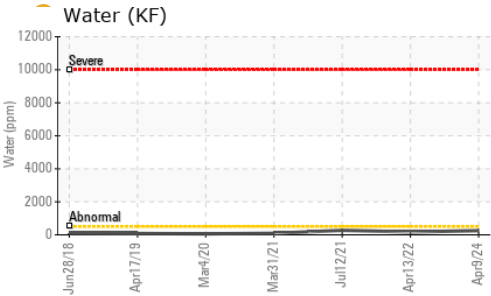
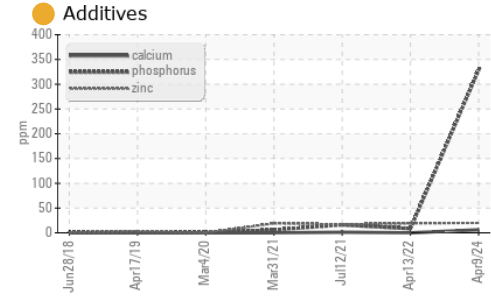
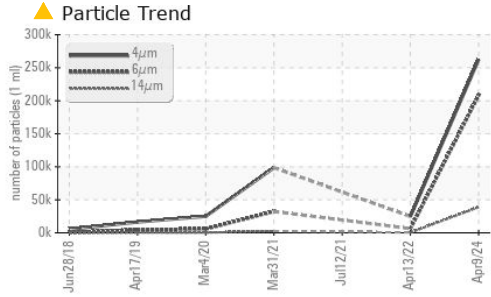
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>262376</b>	24774	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 208384</b>	▲ 6253	---
Particles >14µm	ASTM D7647	>80	<b>▲ 38933</b>	▲ 420	---
Particles >21µm	ASTM D7647	>20	<b>▲ 4601</b>	▲ 81	---
Particles >38µm	ASTM D7647	>4	<b>▲ 13</b>	▲ 6	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 25/25/22</b>	▲ 22/20/16	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.96</b>	0.40	0.344

# OIL ANALYSIS REPORT

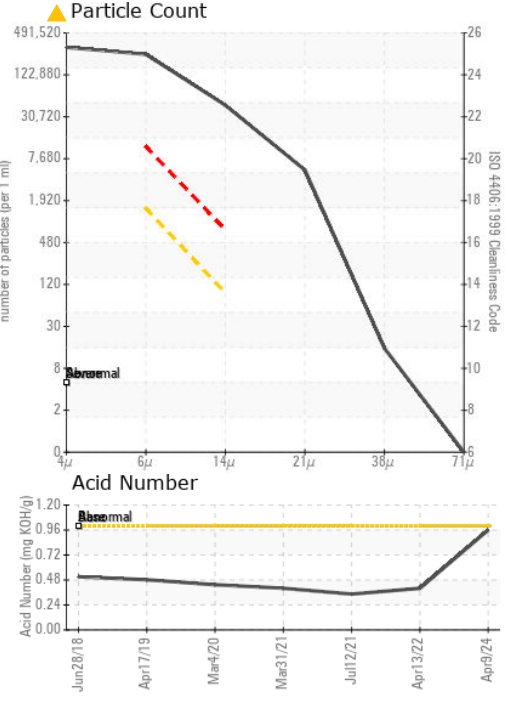
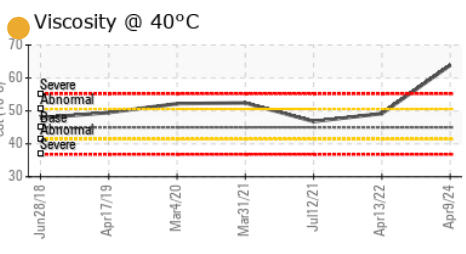
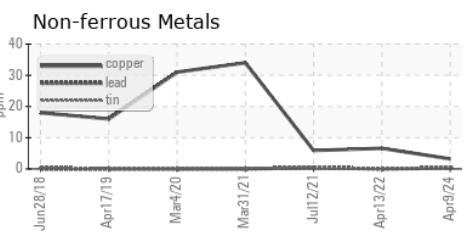
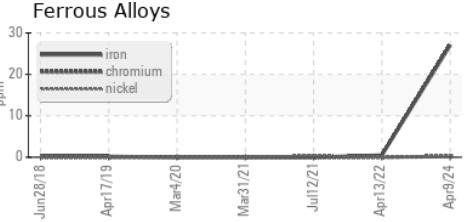


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	● 63.86	49.2	46.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA017060 **Received** : 23 Apr 2024  
**Lab Number** : 06158458 **Tested** : 26 Apr 2024  
**Unique Number** : 10993881 **Diagnosed** : 29 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**UPS OASIS**  
 301 E OAK AVE  
 LAWNSIDE, NJ  
 U 08045  
 Contact: M. ABUZAID  
 mabuzaid@ups.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)