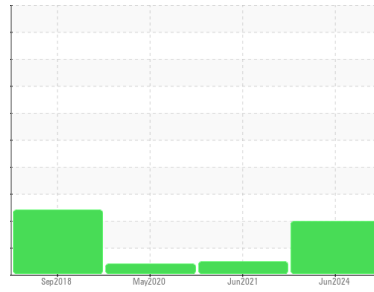




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER AS 20T 2594586 (S/N 1131)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

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>KCPA020817</b>	KCP33870	KCP22748
Sample Date	Client Info			<b>28 Jun 2024</b>	11 Jun 2021	29 May 2020
Machine Age	hrs	Client Info		<b>26812</b>	24447	23661
Oil Age	hrs	Client Info		<b>943</b>	1000	0
Oil Changed	Client Info			<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	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>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>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>50	<b>3</b>	2	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

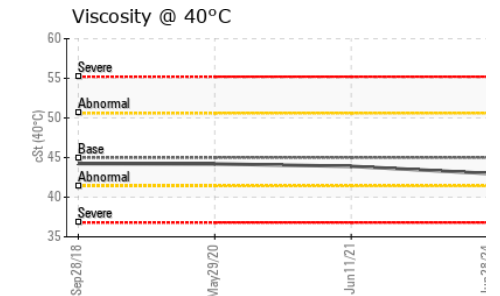
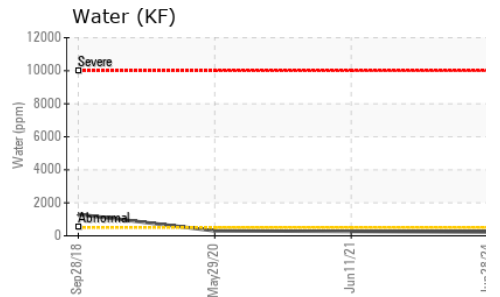
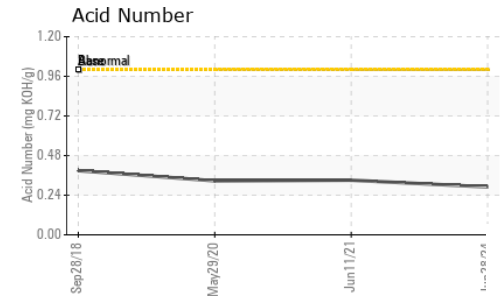
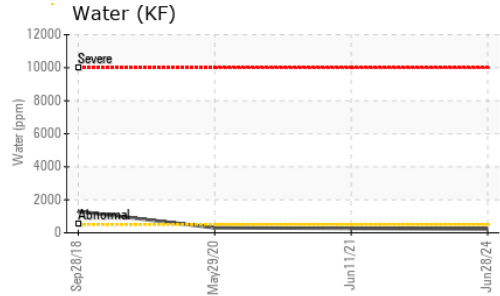
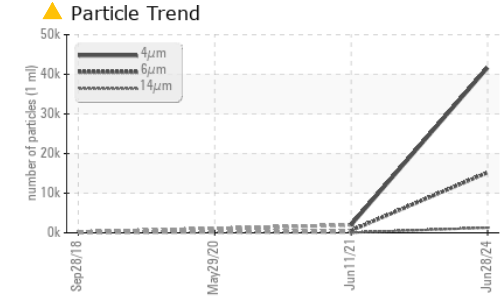
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	14	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>52</b>	72	54
Calcium	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Phosphorus	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Zinc	ppm	ASTM D5185m	0	<b>5</b>	7	6
Sulfur	ppm	ASTM D5185m	23500	<b>20026</b>	17356	16575

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Sodium	ppm	ASTM D5185m		<b>25</b>	16	19
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
Water	%	ASTM D6304	>0.05	<b>0.022</b>	0.026	0.030
ppm Water	ppm	ASTM D6304	>500	<b>227</b>	263.9	302.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>41617</b>	1957	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 15220</b>	577	---
Particles >14µm		ASTM D7647	>80	<b>▲ 1293</b>	48	---
Particles >21µm		ASTM D7647	>20	<b>▲ 310</b>	12	---
Particles >38µm		ASTM D7647	>4	<b>▲ 9</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 23/21/17</b>	16/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.29</b>	0.331	0.327

# OIL ANALYSIS REPORT

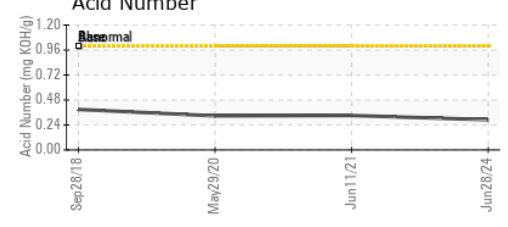
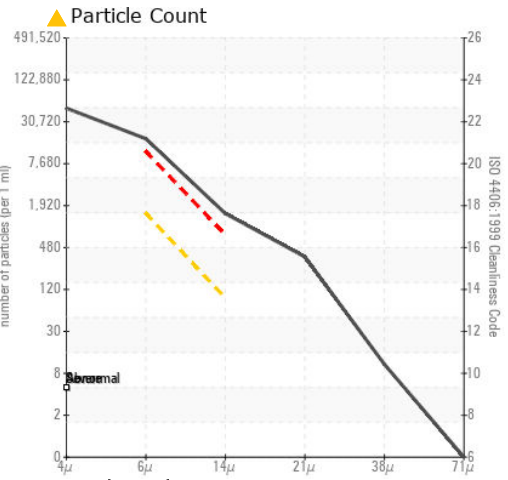
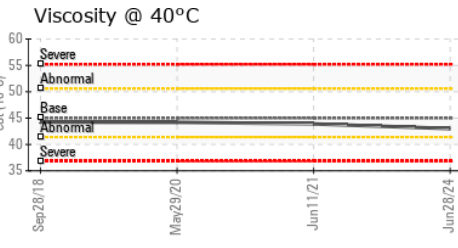
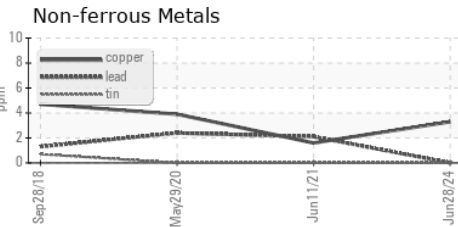
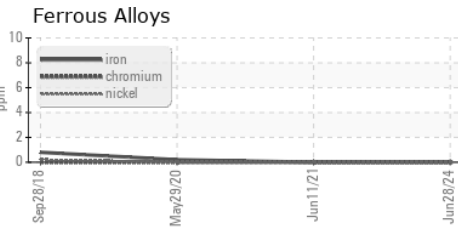


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	43.0	43.9	44.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA020817 **Received** : 15 Jul 2024  
**Lab Number** : 06236835 **Tested** : 17 Jul 2024  
**Unique Number** : 11125669 **Diagnosed** : 17 Jul 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**OLD CITY MILLWORK INC**  
 6935 AIRPORT HWY  
 PENNSAUKEN, NJ  
 US 08109  
 Contact: VINCE  
 vince@oldcitymillworkinc.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)