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# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**KAESER 6524017**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA014930	KCPA009482	KCPA000134
Sample Date		Client Info		11 Mar 2024	30 Oct 2023	12 Apr 2023
Machine Age	hrs	Client Info		20837	19192	16730
Oil Age	hrs	Client Info		1645	0	0
Filter Age	hrs	Client Info		1645	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	2	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	4	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

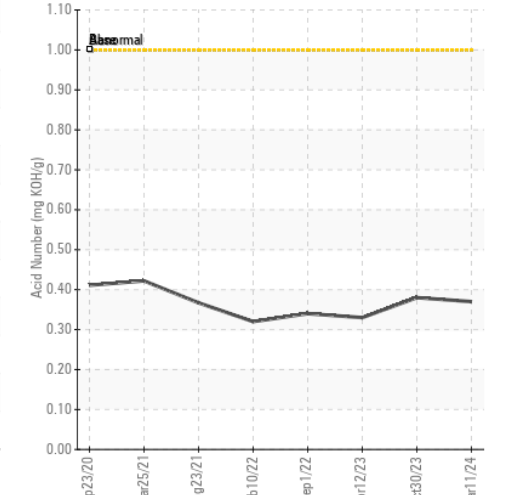
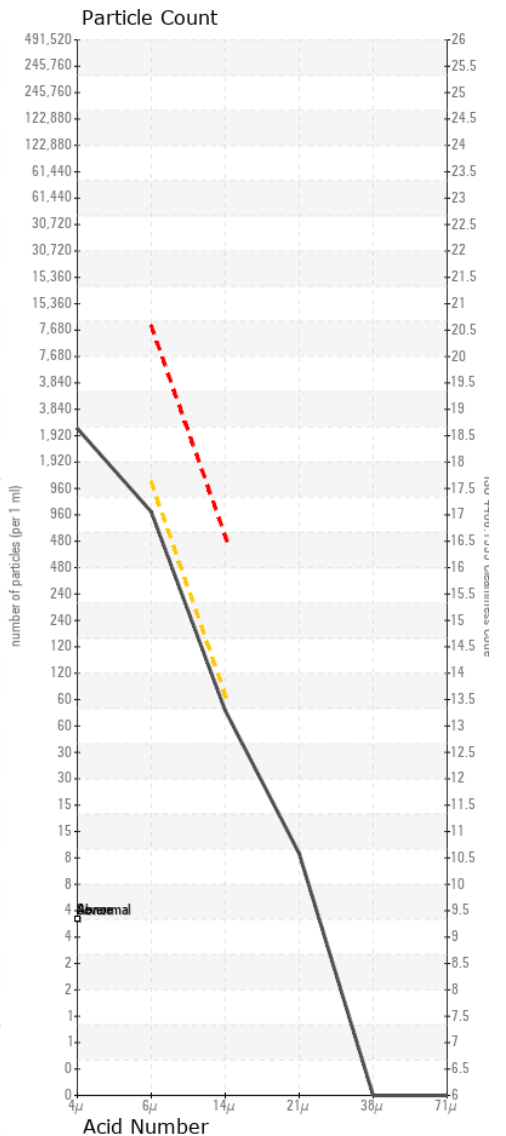
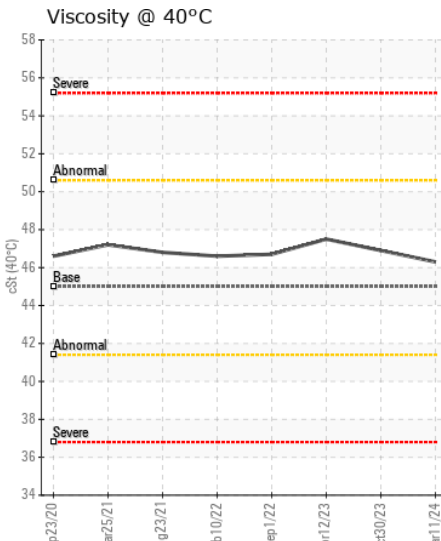
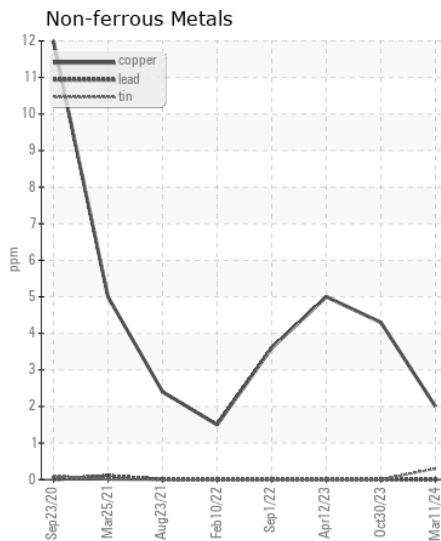
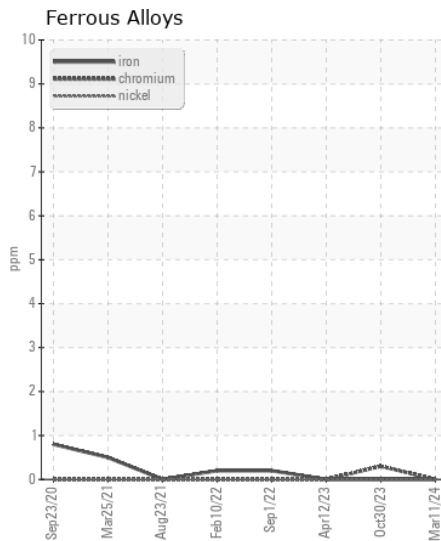
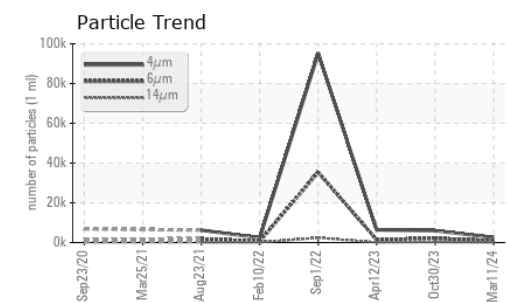
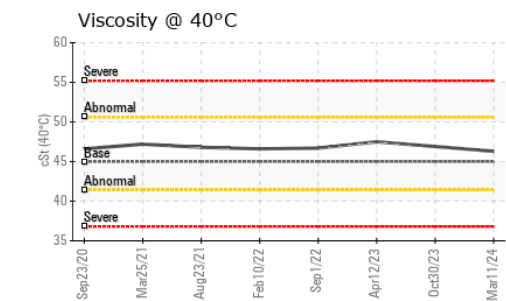
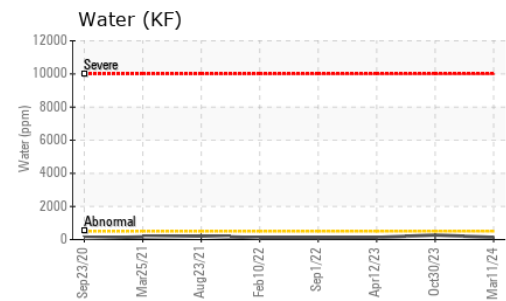
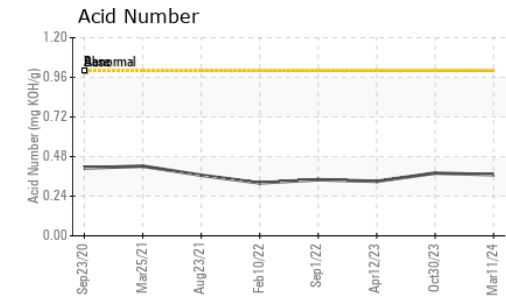
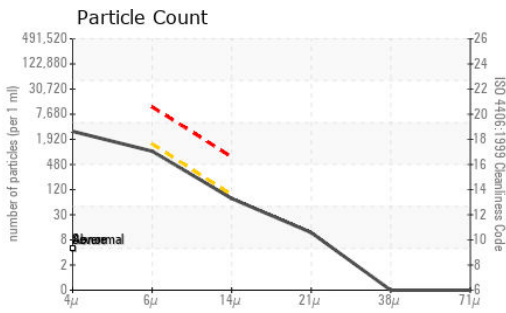
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	3	3
Water	%	ASTM D6304	>0.05	0.013	0.027	0.012
ppm Water	ppm	ASTM D6304	>500	132	272.9	127.3
Particles >4µm		ASTM D7647		2605	5952	6356
Particles >6µm		ASTM D7647	>1300	876	2095	1413
Particles >14µm		ASTM D7647	>80	65	229	75
Particles >21µm		ASTM D7647	>20	10	54	12
Particles >38µm		ASTM D7647	>4	0	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	~-/17/13	19/17/13	20/18/15	20/18/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		18	8	17
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	40	7	16
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	75	53	50
Calcium	ppm	ASTM D5185m	0	1	<1	1
Phosphorus	ppm	ASTM D5185m	0	0	0	1
Zinc	ppm	ASTM D5185m	0	0	0	5
Sulfur	ppm	ASTM D5185m	23500	22111	21310	19002
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37	0.38	0.33
Visc @ 40°C	cSt	ASTM D445	45	46.3	46.9	47.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA014930 **Received** : 20 Mar 2024  
**Lab Number** : 06123641 **Tested** : 25 Mar 2024  
**Unique Number** : 10937792 **Diagnosed** : 25 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**KROGER**  
 1933 TOWER RD  
 AURORA, CO  
 US 80011  
 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: