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# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**KAESER ESD 300 4437877 (S/N 1009)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA013042	KCPA009356	KCP55180
Sample Date		Client Info		08 Mar 2024	03 Nov 2023	22 Feb 2023
Machine Age	hrs	Client Info		60960	54931	54931
Oil Age	hrs	Client Info		8621	0	2593
Filter Age	hrs	Client Info		2105	0	2593
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	3	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	10	12	1
Tin	ppm	ASTM D5185m	>10	0	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

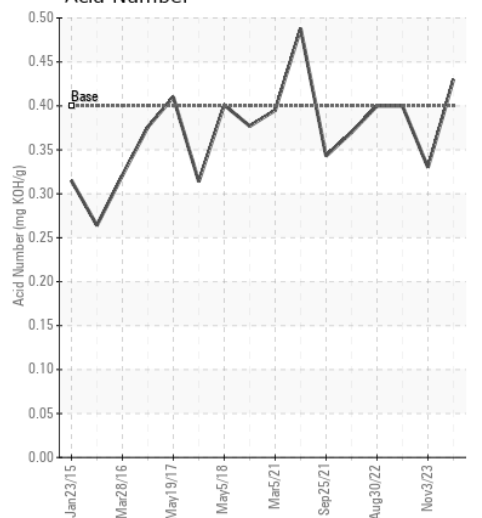
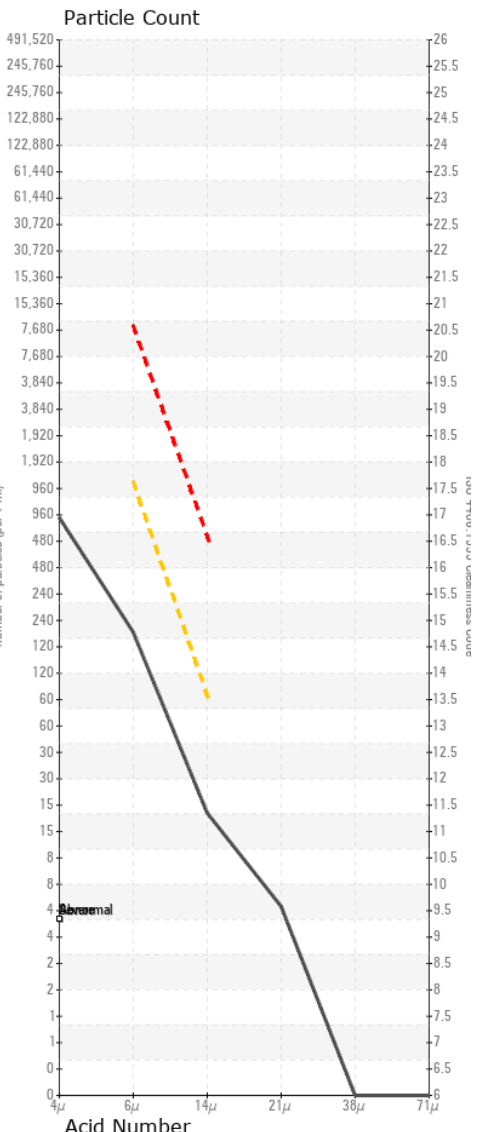
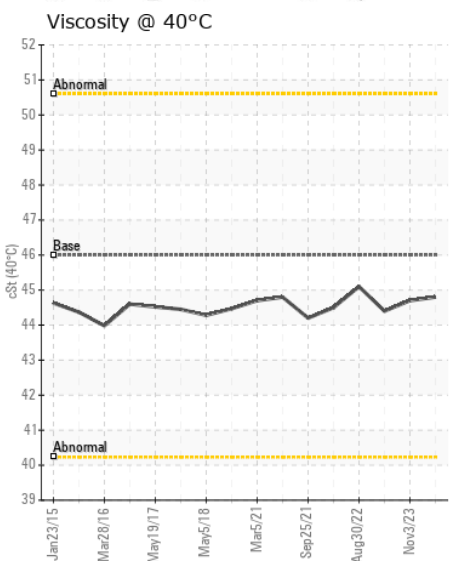
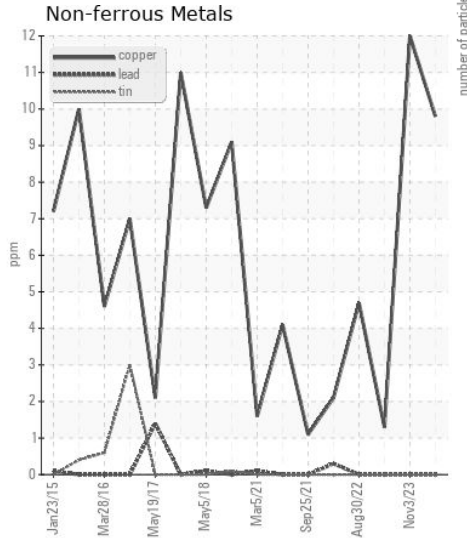
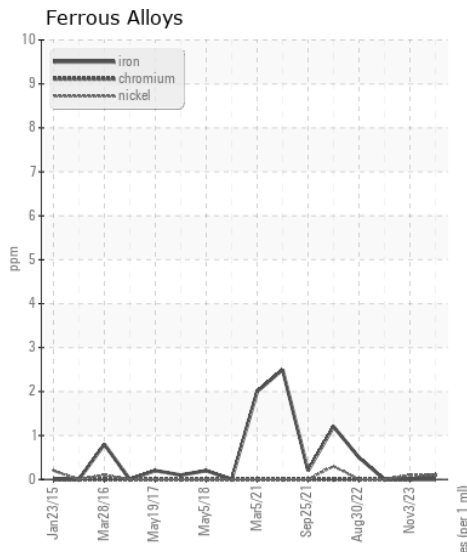
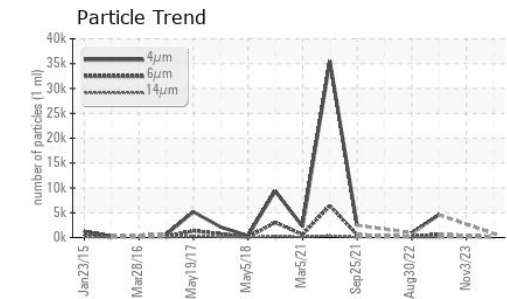
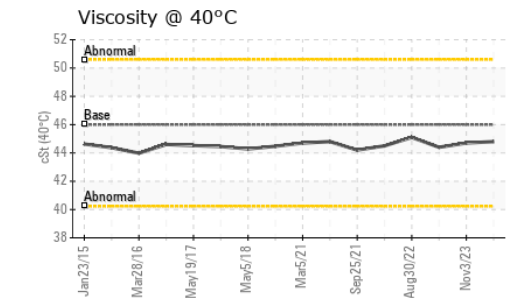
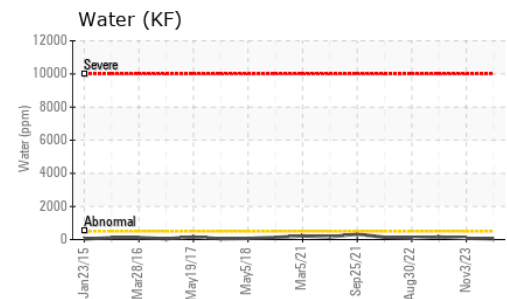
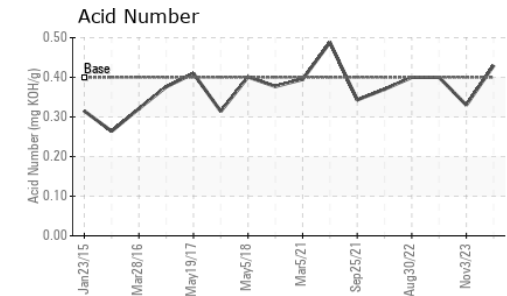
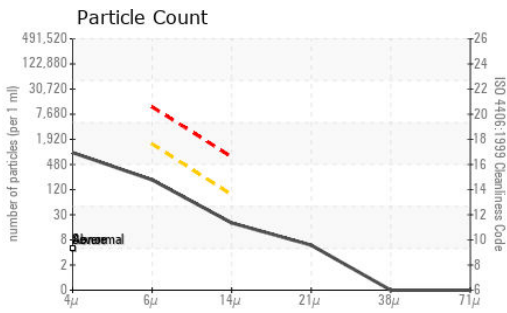
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	1	5
Water	%	ASTM D6304	>0.05	0.004	0.007	0.015
ppm Water	ppm	ASTM D6304	>500	48	78.4	158.7
Particles >4µm		ASTM D7647		812	---	4562
Particles >6µm		ASTM D7647	>1300	181	---	644
Particles >14µm		ASTM D7647	>80	17	---	18
Particles >21µm		ASTM D7647	>20	5	---	3
Particles >38µm		ASTM D7647	>4	0	---	0
Particles >71µm		ASTM D7647	>3	0	---	0
Oil Cleanliness		ISO 4406 (c)	--/17/13	17/15/11	---	19/17/11
Silt	scalar	*Visual	NONE	NONE	▲ MODER	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		3	3	14
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	6	4	36
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		0	1	<1
Zinc	ppm	ASTM D5185m		9	1	12
Sulfur	ppm	ASTM D5185m		21695	16286	18189
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.43	0.33	0.40
Visc @ 40°C	cSt	ASTM D445	46	44.8	44.7	44.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA013042 **Received** : 18 Mar 2024  
**Lab Number** : 06121596 **Tested** : 19 Mar 2024  
**Unique Number** : 10930429 **Diagnosed** : 21 Mar 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**BATTLE LUMBER**  
 11261 HWY 1 SOUTH  
 WADLEY, GA  
 US 30477  
 Contact: DONAVAN

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)

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F: