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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER AIRTOWER 7.5C 6156517 (S/N 1727)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA003755	KCP41824	KCP13932
Sample Date		Client Info		13 Sep 2023	14 Oct 2021	21 Jun 2019
Machine Age	hrs	Client Info		0	2935	732
Oil Age	hrs	Client Info		0	2203	732
Filter Age	hrs	Client Info		0	2203	732
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	4	8	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

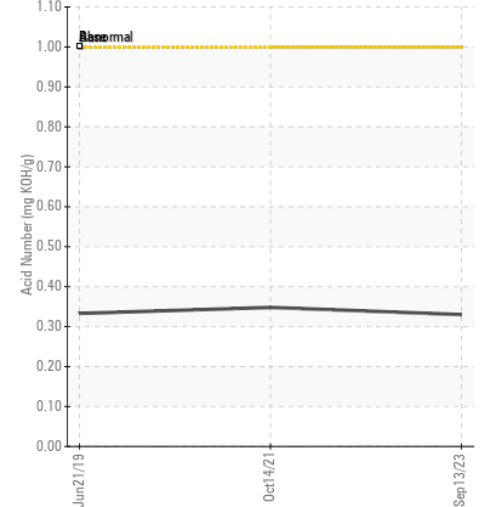
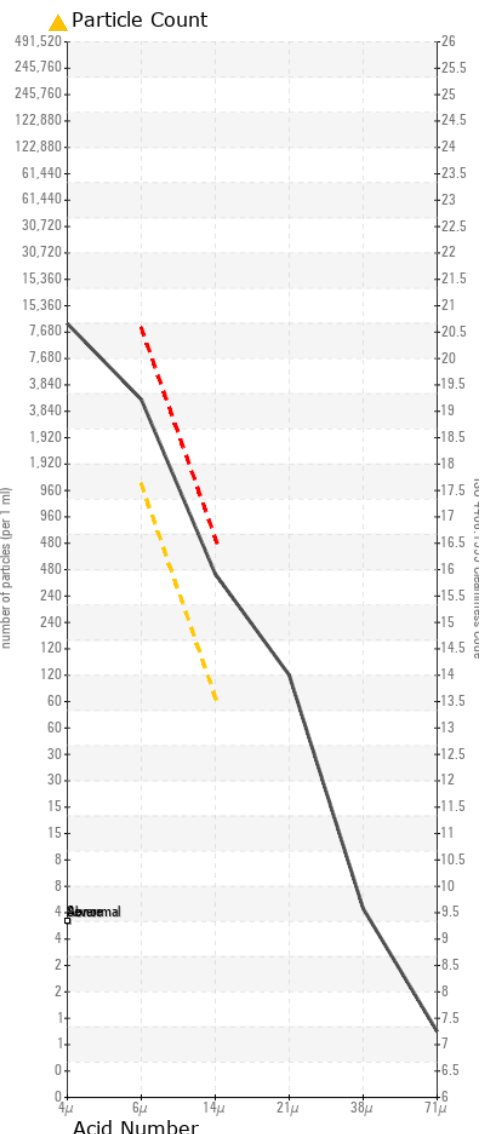
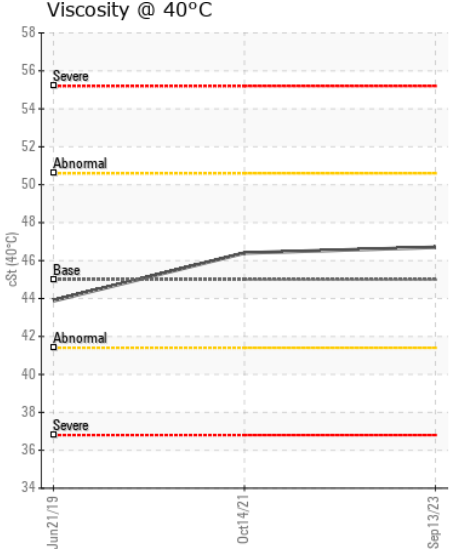
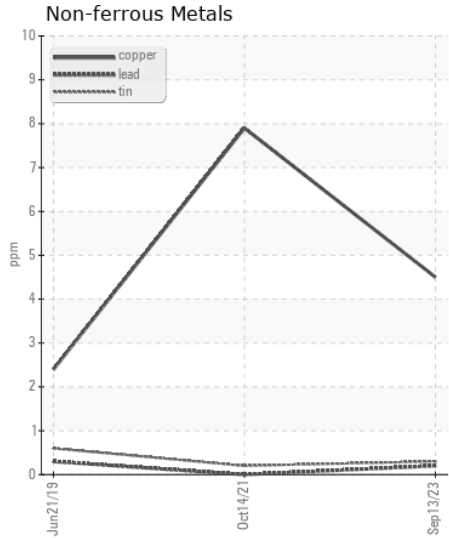
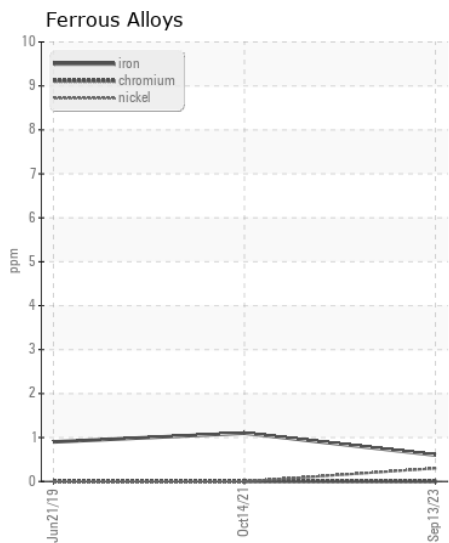
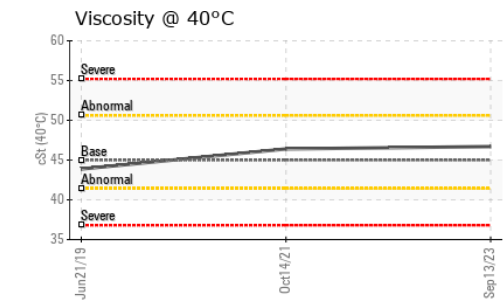
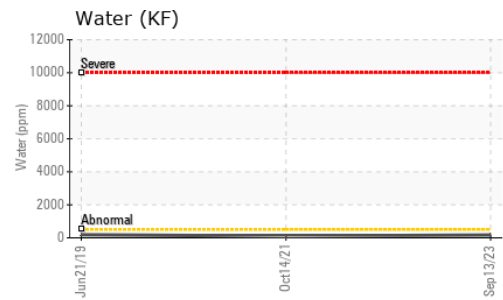
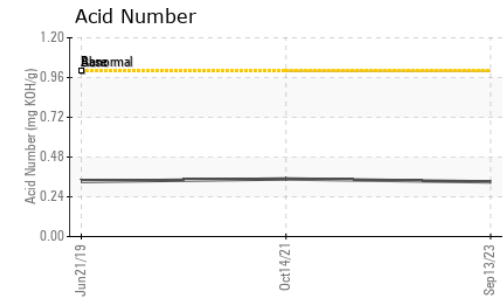
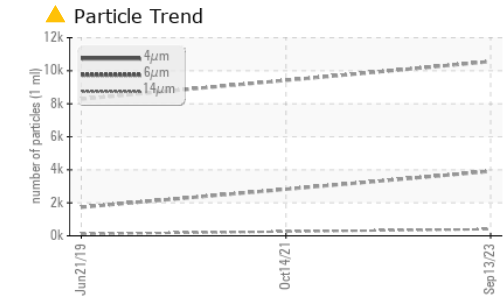
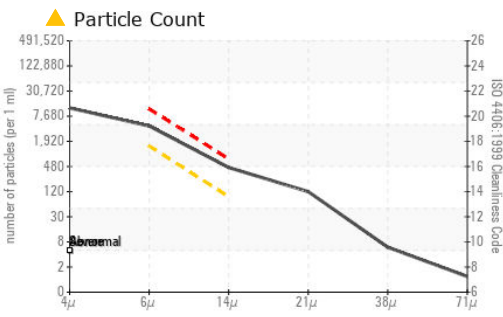
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water	%	ASTM D6304	>0.05	0.017	0.009	0.019
ppm Water	ppm	ASTM D6304	>500	171.8	99.9	190
Particles >4µm		ASTM D7647		10558	---	8281
Particles >6µm		ASTM D7647	>1300	▲ 3911	---	▲ 1733
Particles >14µm		ASTM D7647	>80	▲ 399	---	▲ 115
Particles >21µm		ASTM D7647	>20	▲ 106	---	▲ 36
Particles >38µm		ASTM D7647	>4	▲ 5	---	4
Particles >71µm		ASTM D7647	>3	1	---	0
Oil Cleanliness		ISO 4406 (c)	---/17/13	▲ 21/19/16	---	▲ 18/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	VLITE
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		9	5	13
Boron	ppm	ASTM D5185m	0	0	<1	689
Barium	ppm	ASTM D5185m	90	8	0	7
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	40	20	62
Calcium	ppm	ASTM D5185m	0	1	0	1
Phosphorus	ppm	ASTM D5185m	0	2	4	5
Zinc	ppm	ASTM D5185m	0	8	5	0
Sulfur	ppm	ASTM D5185m	23500	19814	16809	18739
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.33	0.348	0.333
Visc @ 40°C	cSt	ASTM D445	45	46.7	46.4	43.88



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003755 **Received** : 21 Sep 2023
Lab Number : 05957687 **Tested** : 22 Sep 2023
Unique Number : 10658900 **Diagnosed** : 22 Sep 2023 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

IMAGE TEK
 3545 S PLATTE RIVER DR N
 ENGLEWOOD, CO
 US 80110
 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)