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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER SM 11 2005467 (S/N 1169)

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		KCPA000852	KCP32220	KCP16374
Sample Date		Client Info		28 Sep 2023	19 May 2021	23 Jul 2019
Machine Age	hrs	Client Info		27509	22386	18374
Oil Age	hrs	Client Info		0	2570	3503
Filter Age	hrs	Client Info		0	2570	3503
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

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	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	13	4	4
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

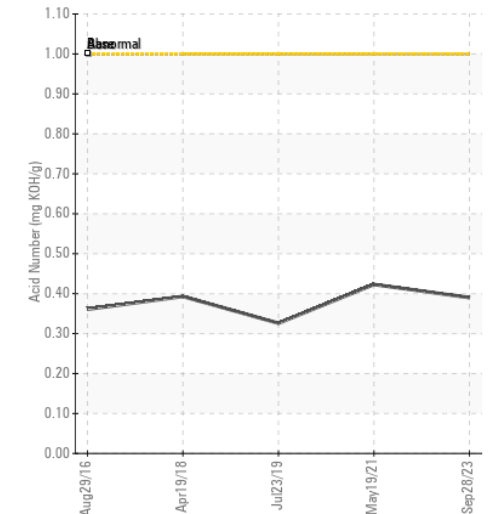
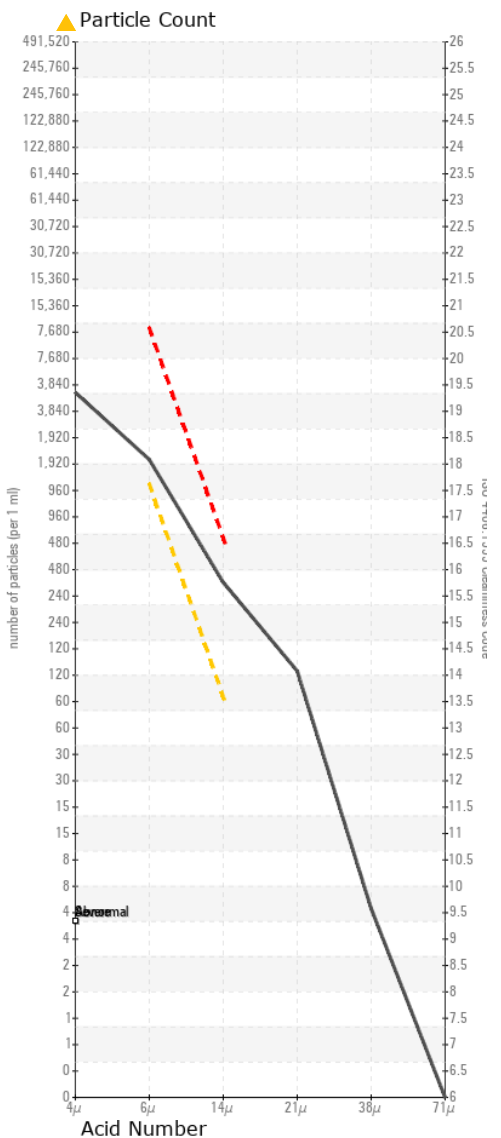
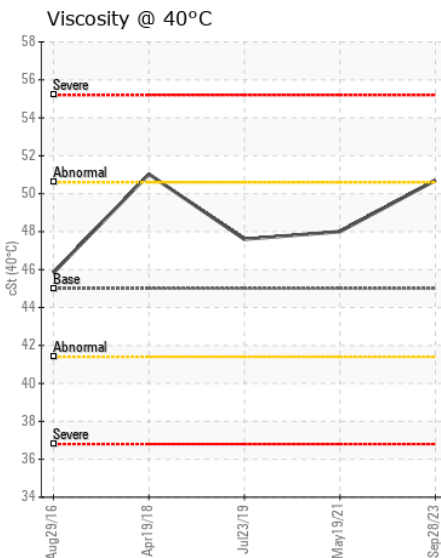
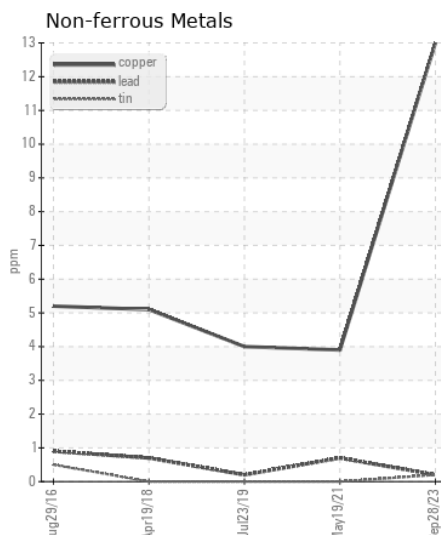
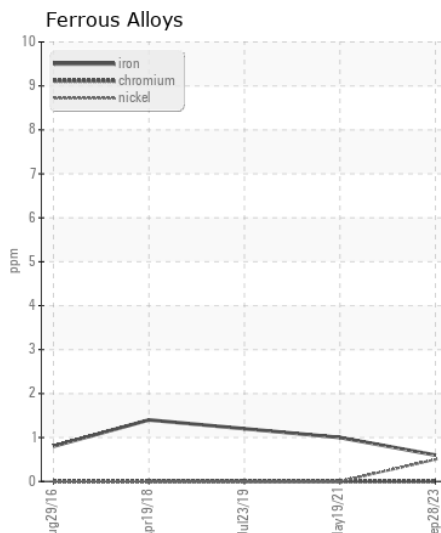
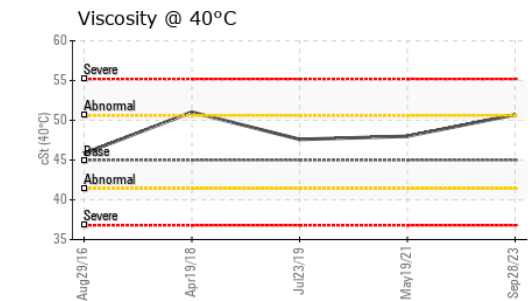
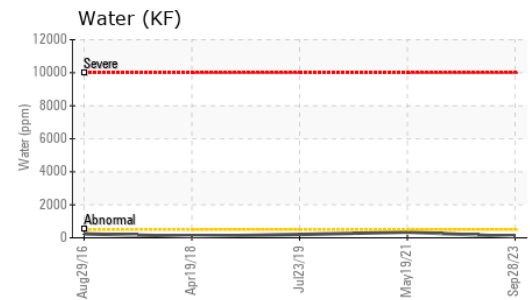
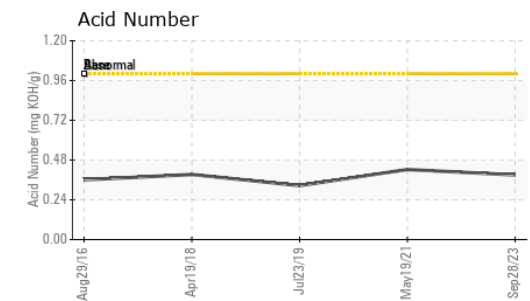
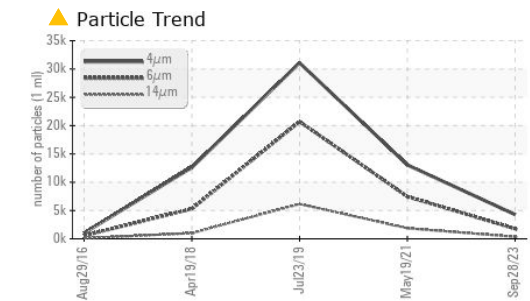
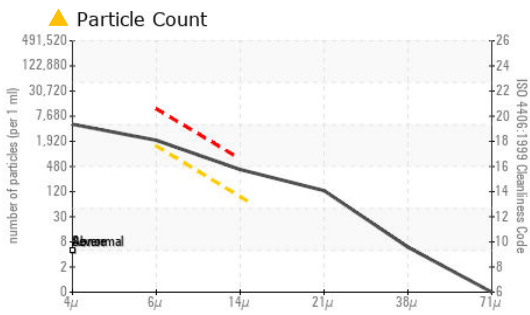
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	10	<1
Water	%	ASTM D6304	>0.05	0.007	0.034	0.020
ppm Water	ppm	ASTM D6304	>500	78.8	345.7	204.0
Particles >4µm		ASTM D7647		4289	13051	31086
Particles >6µm		ASTM D7647	>1300	▲ 1781	▲ 7462	▲ 20713
Particles >14µm		ASTM D7647	>80	▲ 357	▲ 1869	▲ 6155
Particles >21µm		ASTM D7647	>20	▲ 112	▲ 597	▲ 2314
Particles >38µm		ASTM D7647	>4	▲ 5	▲ 15	▲ 117
Particles >71µm		ASTM D7647	>3	0	0	▲ 5
Oil Cleanliness		ISO 4406 (c)	>17/13	▲ 18/16	▲ 20/18	▲ 22/20
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	MODER
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		0	17	7
Boron	ppm	ASTM D5185m	0	0	24	0
Barium	ppm	ASTM D5185m	90	0	2	2
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	5	71	42
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	0	1
Zinc	ppm	ASTM D5185m	0	0	<1	5
Sulfur	ppm	ASTM D5185m	23500	21375	20827	20880
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39	0.423	0.326
Visc @ 40°C	cSt	ASTM D445	45	50.7	48.0	47.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA000852 **Received** : 06 Oct 2023
Lab Number : 05971444 **Diagnosed** : 10 Oct 2023
Unique Number : 10683394 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SELECT WOODWORKS
 12319 MEAD WAY
 LITTLETON, CO
 US 80125
 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: