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OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
KAESER 5425369

Component
Compressor

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

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		KCPA003414	KCP52481	KCP46544D
Sample Date		Client Info		30 Jan 2024	31 Jan 2023	20 Oct 2022
Machine Age	hrs	Client Info		70985	62551	60080
Oil Age	hrs	Client Info		0	3600	6401
Filter Age	hrs	Client Info		0	3600	6401
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	0
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	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	▲ 96	16	36
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

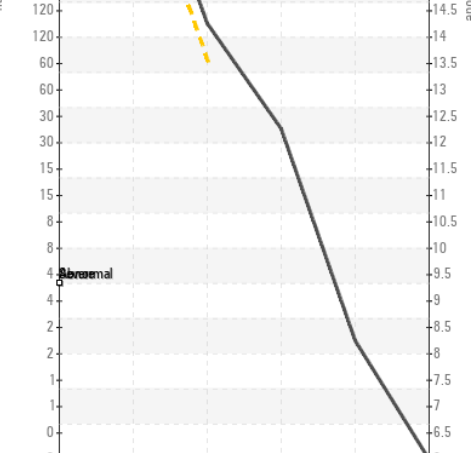
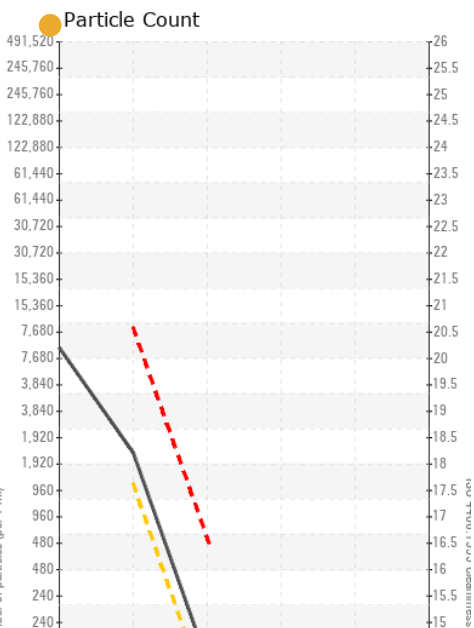
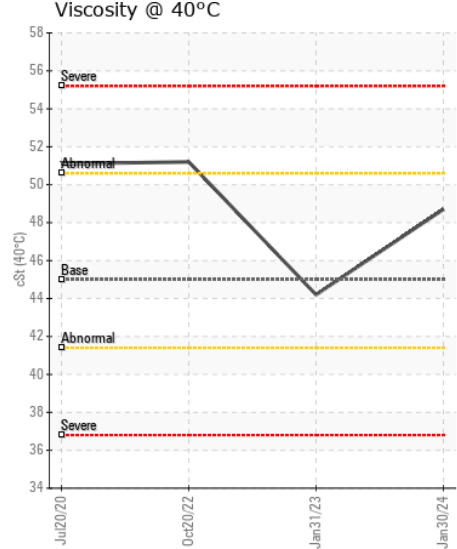
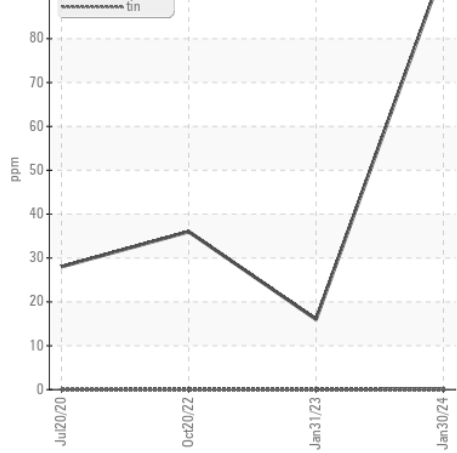
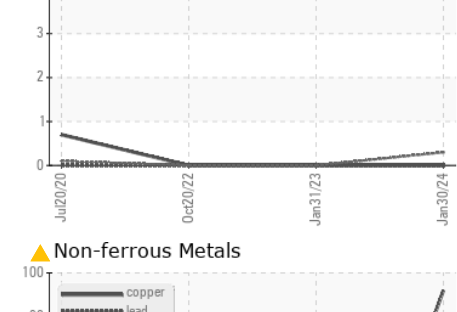
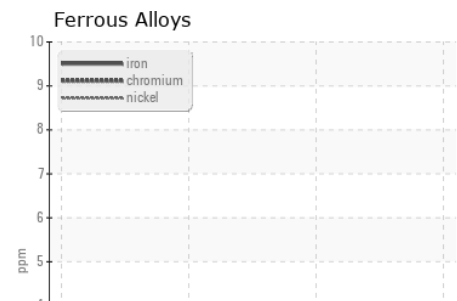
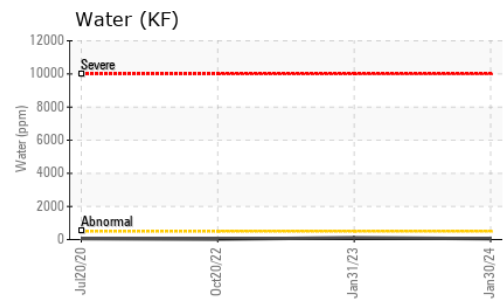
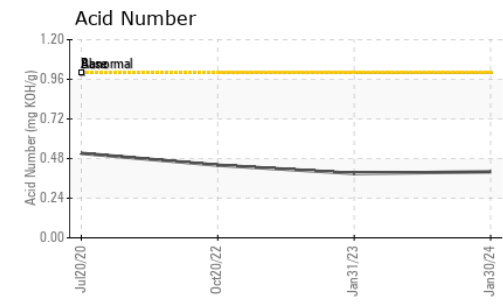
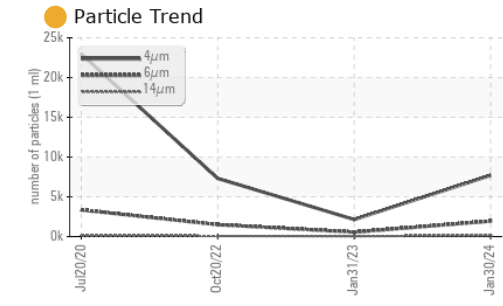
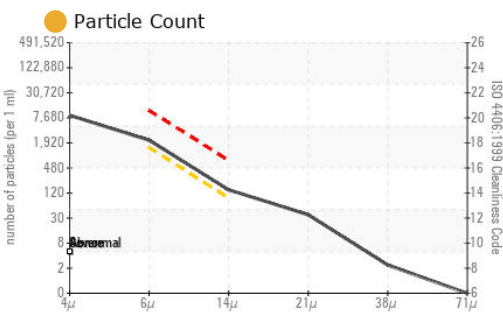
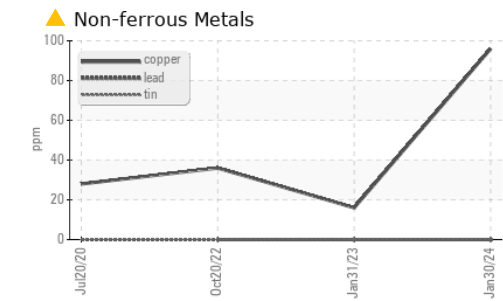
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.05	0.004	0.011	0.002
ppm Water	ppm	ASTM D6304	>500	49	117.0	21.7
Particles >4µm		ASTM D7647		7707	2144	7314
Particles >6µm		ASTM D7647	>1300	● 1947	558	● 1498
Particles >14µm		ASTM D7647	>80	● 127	43	72
Particles >21µm		ASTM D7647	>20	● 32	15	14
Particles >38µm		ASTM D7647	>4	2	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	≥-/17/13	● 20/18/14	18/16/13	● 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		<1	14	<1
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	67	38
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	0	71	44
Calcium	ppm	ASTM D5185m	0	0	2	<1
Phosphorus	ppm	ASTM D5185m	0	0	5	9
Zinc	ppm	ASTM D5185m	0	34	39	26
Sulfur	ppm	ASTM D5185m	23500	17509	17297	19494
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.39	0.44
Visc @ 40°C	cSt	ASTM D445	45	48.7	44.2	51.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003414 **Received** : 14 Feb 2024
Lab Number : 06088765 **Tested** : 15 Feb 2024
Unique Number : 10876210 **Diagnosed** : 15 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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)