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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER AS 25T 6000660 (S/N 1425)

Component
Compressor

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

RECOMMENDATION

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		KCPA010363	KCPA003254	KCP42032
Sample Date		Client Info		18 Jan 2024	13 Jul 2023	27 Mar 2022
Machine Age	hrs	Client Info		19468	17956	13562
Oil Age	hrs	Client Info		0	0	4204
Filter Age	hrs	Client Info		0	0	4204
Oil Changed		Client Info		N/A	N/A	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	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	8	4
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

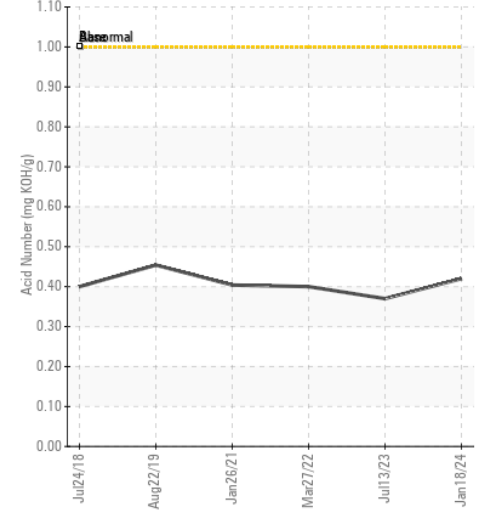
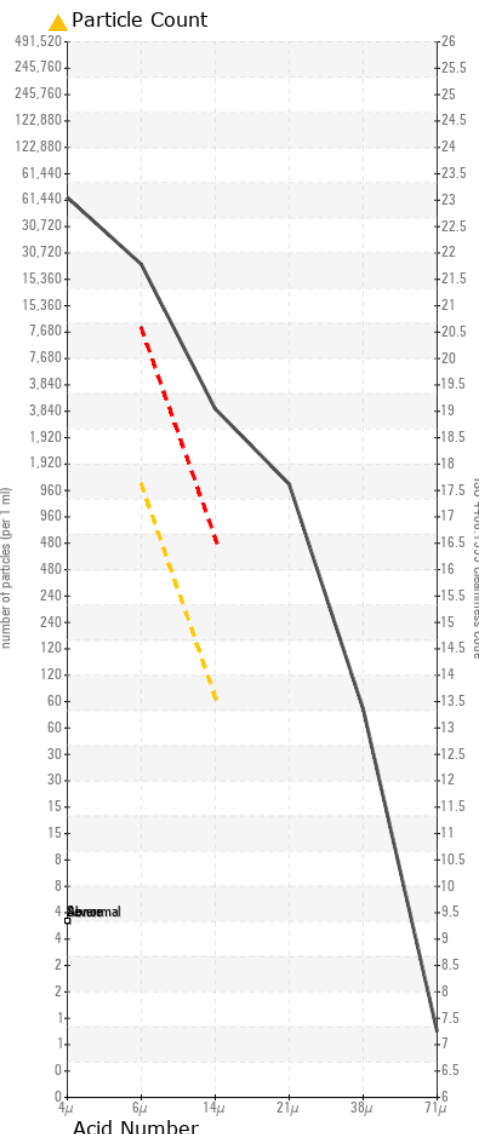
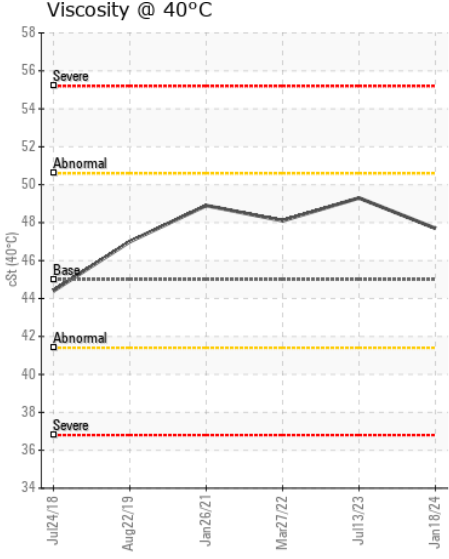
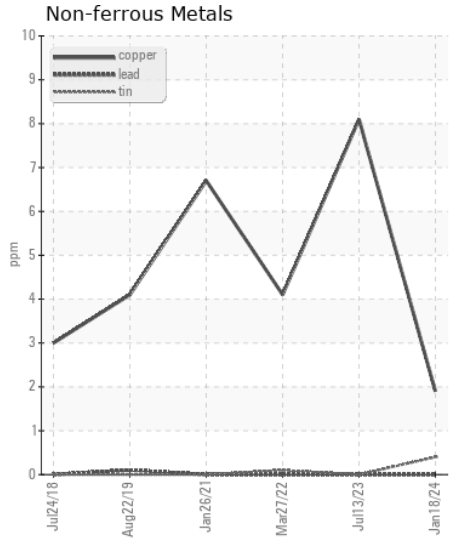
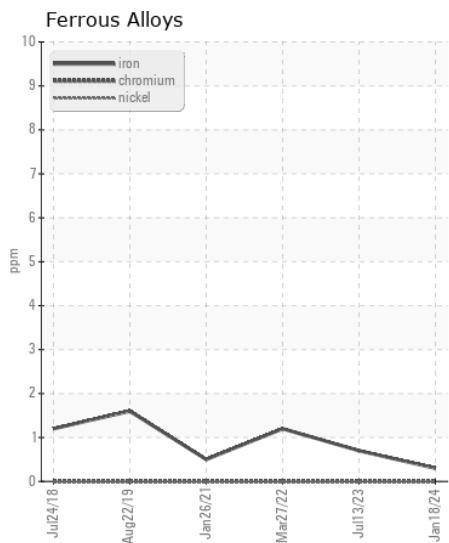
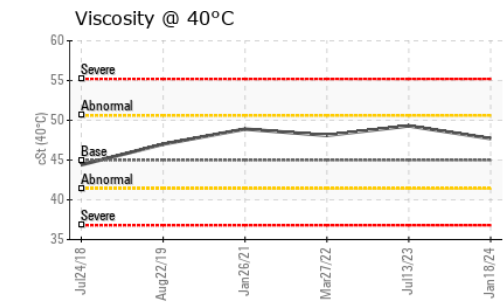
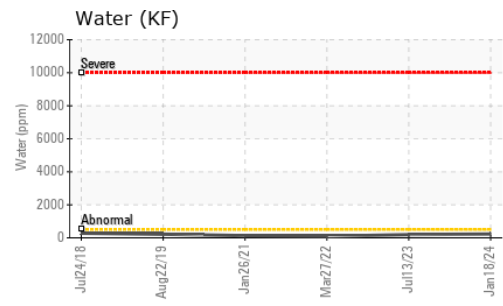
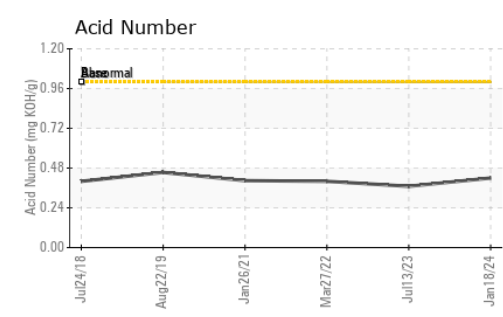
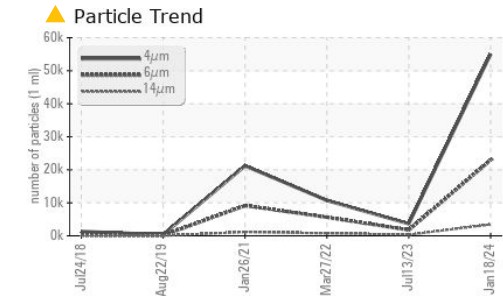
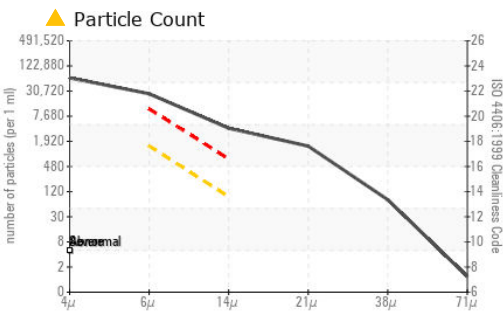
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>0.05	0.022	0.019	0.008
ppm Water	ppm	ASTM D6304	>500	228	197.4	87.3
Particles >4µm		ASTM D7647		55043	3648	10720
Particles >6µm		ASTM D7647	>1300	▲ 22949	▲ 1751	▲ 5606
Particles >14µm		ASTM D7647	>80	▲ 3454	▲ 329	▲ 760
Particles >21µm		ASTM D7647	>20	▲ 1291	▲ 107	▲ 160
Particles >38µm		ASTM D7647	>4	▲ 68	4	▲ 7
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	≥-/17/13	▲ 23/22/19	▲ 19/18/16	▲ 20/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	0	12
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	11	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	64	13	54
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	4	0	6
Zinc	ppm	ASTM D5185m	0	7	11	30
Sulfur	ppm	ASTM D5185m	23500	17298	20894	16145
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42	0.37	0.40
Visc @ 40°C	cSt	ASTM D445	45	47.7	49.3	48.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA010363 **Received** : 31 Jan 2024
Lab Number : 06075775 **Tested** : 06 Feb 2024
Unique Number : 10857866 **Diagnosed** : 06 Feb 2024 - Jonathan Hester
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)