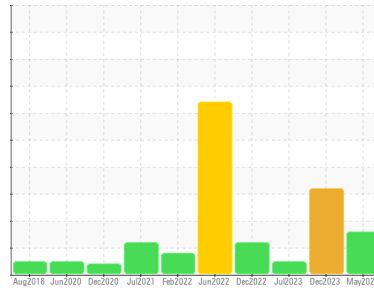




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER CSD 125 6113804 (S/N 3119)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA012631	KC125019	KC110221
Sample Date	Client Info			02 May 2024	05 Dec 2023	26 Jul 2023
Machine Age	hrs	Client Info		18466	15787	15225
Oil Age	hrs	Client Info		3243	0	4000
Oil Changed	Client Info			Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	1	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	20	7	6
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

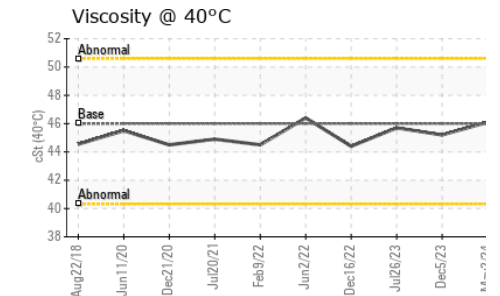
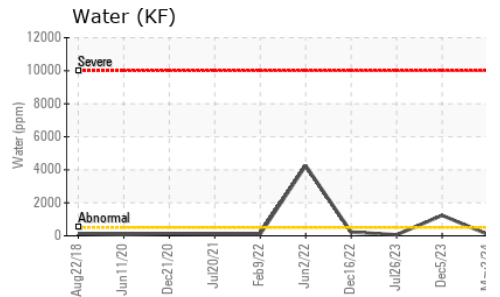
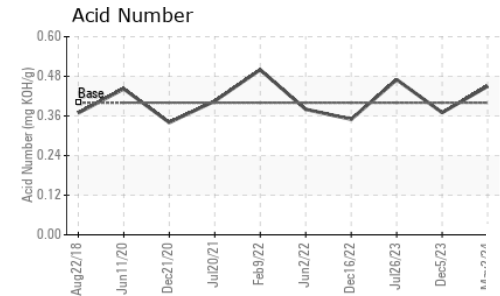
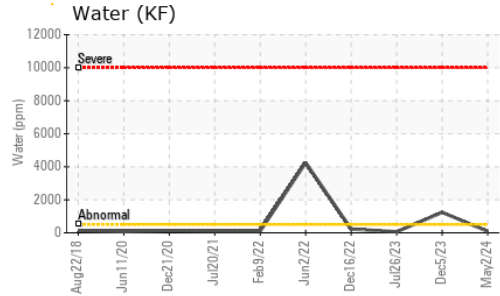
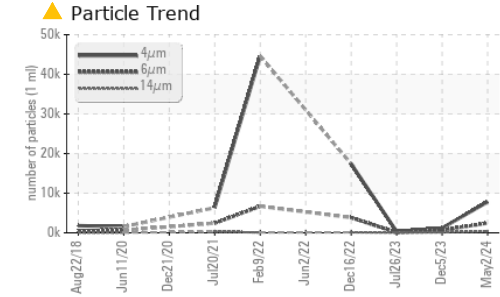
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	2	12	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	8	48	6
Calcium	ppm	ASTM D5185m	2	4	3	0
Phosphorus	ppm	ASTM D5185m		11	2	6
Zinc	ppm	ASTM D5185m		9	0	0
Sulfur	ppm	ASTM D5185m		26009	17693	13730

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		3	15	<1
Potassium	ppm	ASTM D5185m	>20	2	7	0
Water	%	ASTM D6304	>0.05	0.009	▲ 0.124	0.006
ppm Water	ppm	ASTM D6304	>500	90	▲ 1240	63.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		7815	1201	334
Particles >6µm		ASTM D7647	>1300	▲ 2454	654	88
Particles >14µm		ASTM D7647	>80	▲ 316	● 111	10
Particles >21µm		ASTM D7647	>20	▲ 95	● 37	3
Particles >38µm		ASTM D7647	>4	2	● 6	0
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 20/18/15	● 17/17/14	16/14/10

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.45	0.37	0.47

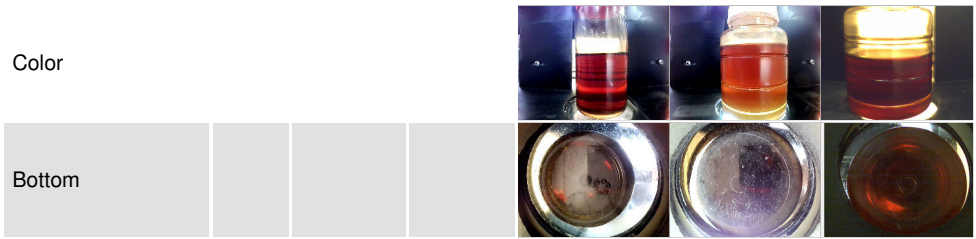
OIL ANALYSIS REPORT



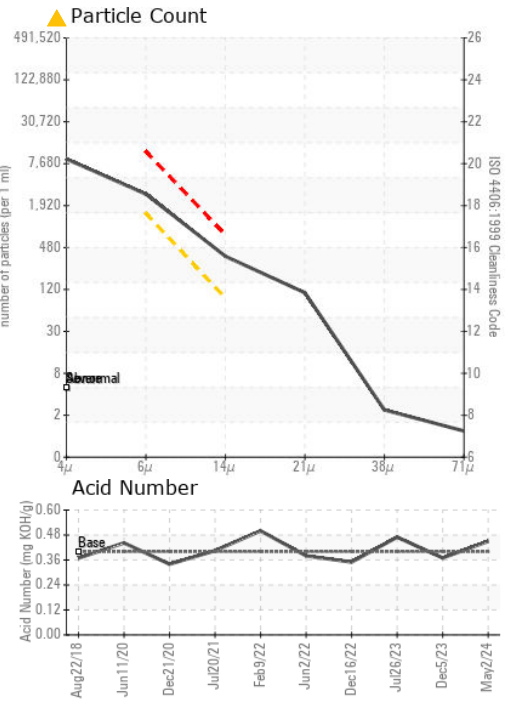
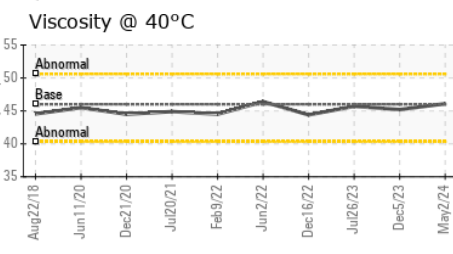
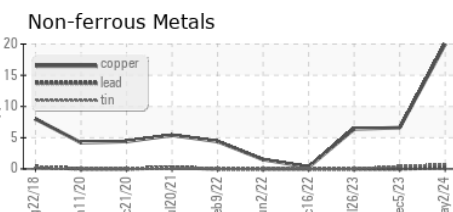
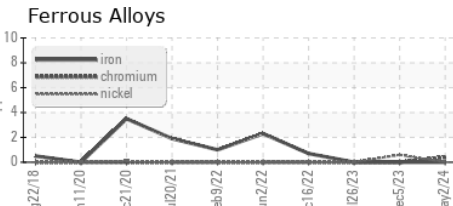
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	46.1	45.2	45.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA012631 **Received** : 13 May 2024
Lab Number : 06177699 **Tested** : 14 May 2024
Unique Number : 11023752 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AXIUM PLASTICS
 355 N SHAMROCK RD
 JEFFERSON CITY, MO
 US 65101
 Contact: L LEWIS
 LLEWIS@AXIUMPLASTICS.COM

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)