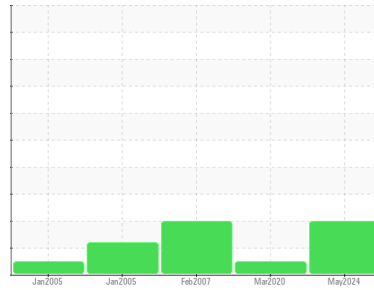




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER CSD 75 1854029 (S/N 1038)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
 We recommend you service the filters on this component. 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. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
 The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KC130856	KC84858	KC006335
Sample Date	Client Info			21 May 2024	09 Mar 2020	20 Feb 2007
Machine Age	hrs	Client Info		58279	43384	14633
Oil Age	hrs	Client Info		6000	4764	3205
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	<1
Lead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm	ASTM D5185m	>50	4	15	12
Tin	ppm	ASTM D5185m	>15	<1	0	0
Antimony	ppm	ASTM D5185m		---	0	9
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

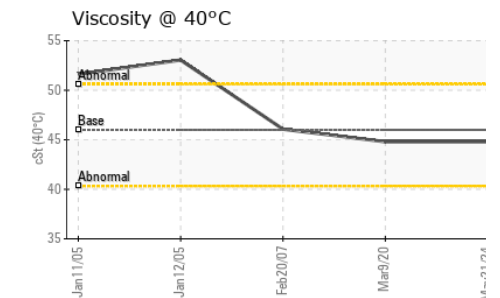
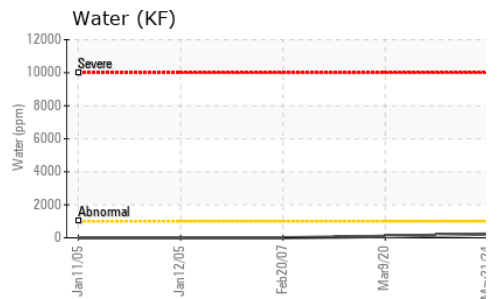
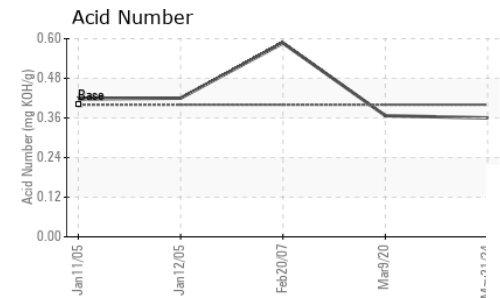
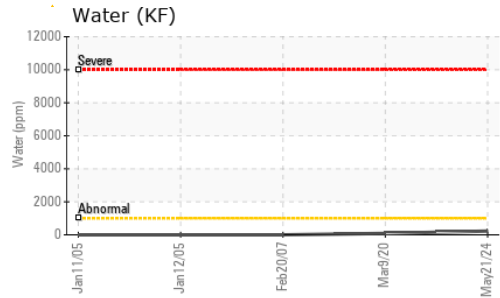
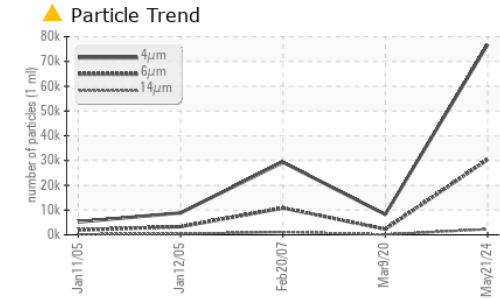
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	1
Barium	ppm	ASTM D5185m	90	44	<1	8
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	61	16	40
Calcium	ppm	ASTM D5185m	2	2	<1	0
Phosphorus	ppm	ASTM D5185m		1	1	14
Zinc	ppm	ASTM D5185m		11	12	31

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	3
Sodium	ppm	ASTM D5185m		26	10	51
Potassium	ppm	ASTM D5185m	>20	6	10	5
Water	%	ASTM D6304	>0.1	0.022	0.008	0.009
ppm Water	ppm	ASTM D6304	>1000	227	86.4	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		76907	8197	29289
Particles >6µm		ASTM D7647	>2500	▲ 30425	2254	▲ 10833
Particles >14µm		ASTM D7647	>320	▲ 2252	111	▲ 1158
Particles >21µm		ASTM D7647	>80	▲ 483	22	▲ 277
Particles >38µm		ASTM D7647	>20	15	3	▲ 27
Particles >71µm		ASTM D7647	>4	1	1	▲ 1
Oil Cleanliness		ISO 4406 (c)	>18/15	▲ 22/18	18/14	▲ 21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.36	0.367	0.587

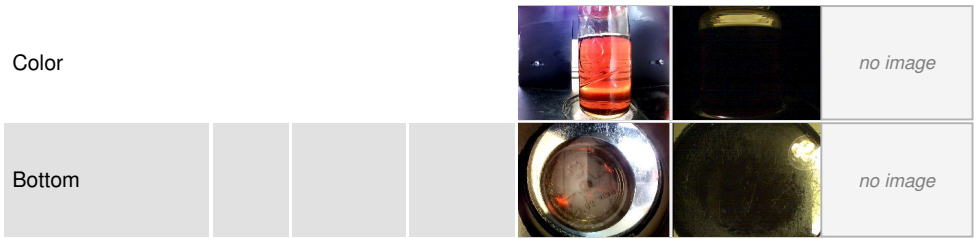
OIL ANALYSIS REPORT



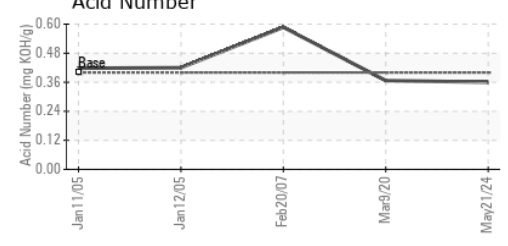
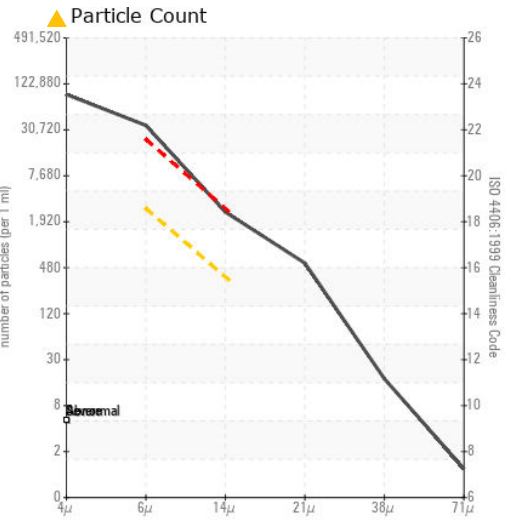
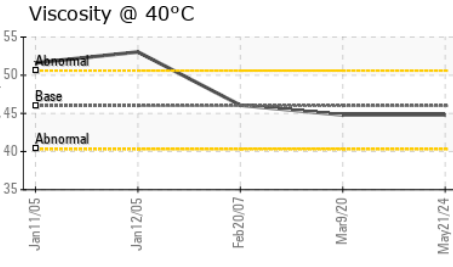
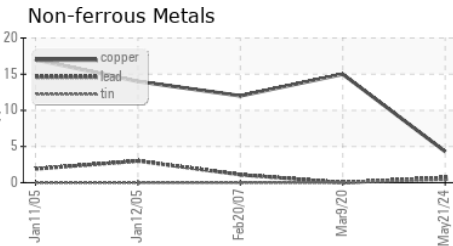
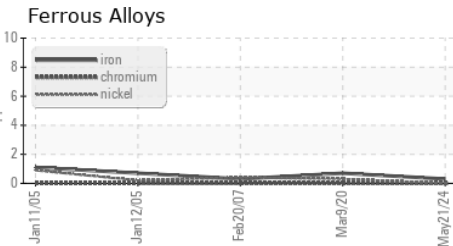
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.8	44.8	46.07

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC130856
Lab Number : 06193988
Unique Number : 11056111
Test Package : IND 2
Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 31 May 2024 - Angela Borella

GEORGIA PACIFIC
 1 OWENS WAY
 BRADFORD, PA
 US 16701
 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)