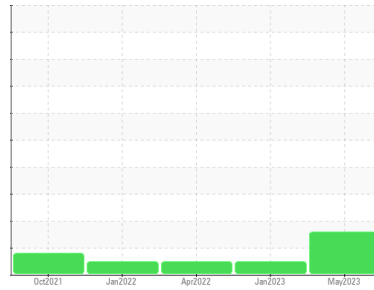




PROBLEM SUMMARY

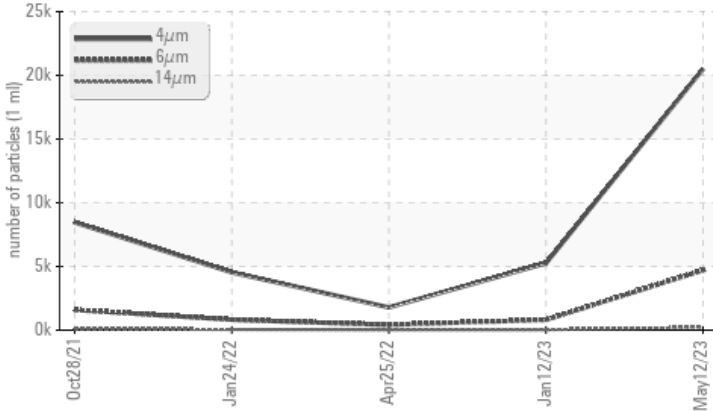
Sample Rating Trend



Machine Id
7393976 (S/N 1078)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >6µm	ASTM D7647	>1300	▲ 4704	810	416
Particles >14µm	ASTM D7647	>80	▲ 220	32	32
Particles >21µm	ASTM D7647	>20	▲ 43	4	8
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/19/15	20/17/12	18/16/12

Customer Id: FLETRO
 Sample No.: KC106378
 Lab Number: 05933599
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

12 Jan 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



25 Apr 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



24 Jan 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

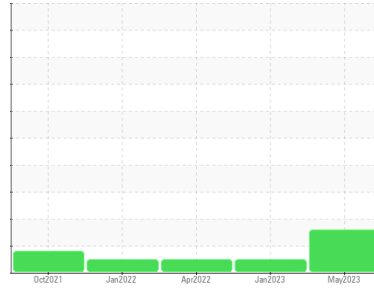
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
7393976 (S/N 1078)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

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.

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	KC106378	KC105756	KC103920
Sample Date	Client Info	12 May 2023	12 Jan 2023	25 Apr 2022
Machine Age	hrs	13906	11697	7915
Oil Age	hrs	2200	5000	4500
Oil Changed	Client Info	Not Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

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 >3	0	0	0
Titanium ppm	ASTM D5185m >3	0	0	0
Silver ppm	ASTM D5185m >2	0	0	0
Aluminum ppm	ASTM D5185m >10	0	0	3
Lead ppm	ASTM D5185m >10	0	0	<1
Copper ppm	ASTM D5185m >50	5	8	5
Tin ppm	ASTM D5185m >10	0	<1	<1
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m 90	39	0	0
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	0	0	<1
Magnesium ppm	ASTM D5185m 90	43	13	41
Calcium ppm	ASTM D5185m 2	<1	0	<1
Phosphorus ppm	ASTM D5185m	0	10	3
Zinc ppm	ASTM D5185m	14	21	9

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	0	0	0
Sodium ppm	ASTM D5185m	15	4	14
Potassium ppm	ASTM D5185m >20	5	3	12
Water %	ASTM D6304 >0.05	0.020	0.006	0.020
ppm Water	ASTM D6304 >500	202.3	60.8	202.6

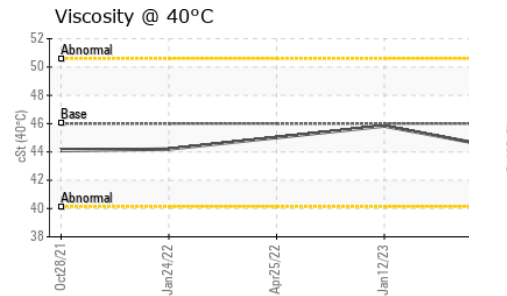
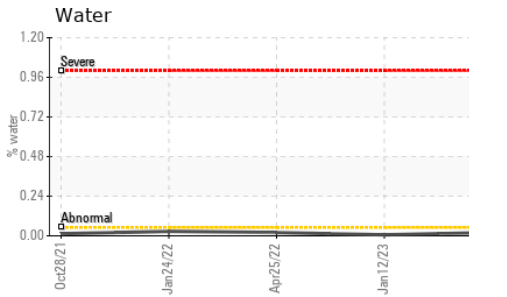
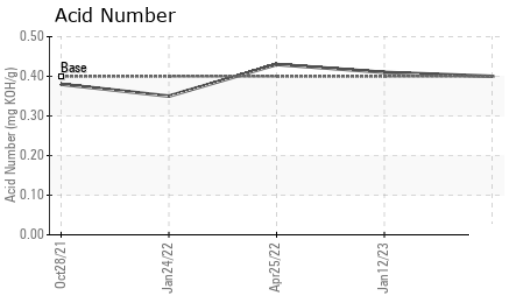
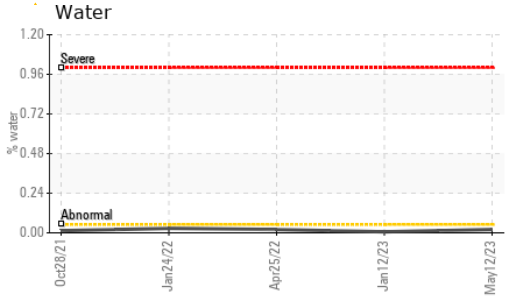
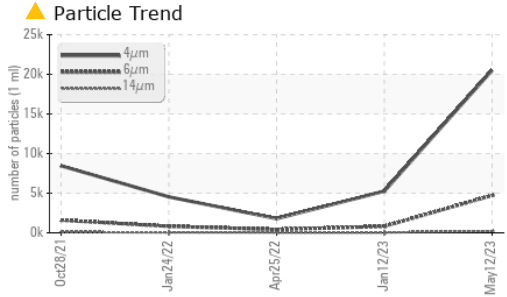
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	20511	5254	1787
Particles >6µm	ASTM D7647 >1300	▲ 4704	810	416
Particles >14µm	ASTM D7647 >80	▲ 220	32	32
Particles >21µm	ASTM D7647 >20	▲ 43	4	8
Particles >38µm	ASTM D7647 >4	1	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 22/19/15	20/17/12	18/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.40	0.41	0.43

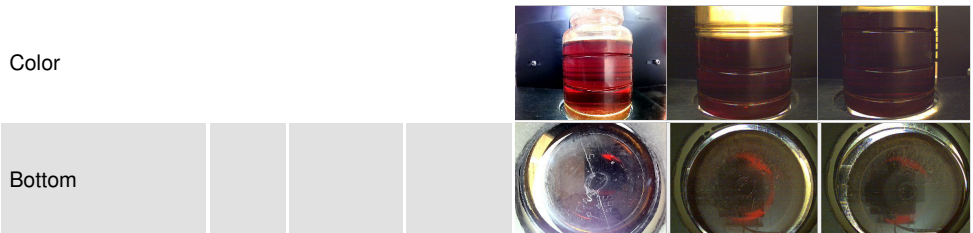
OIL ANALYSIS REPORT



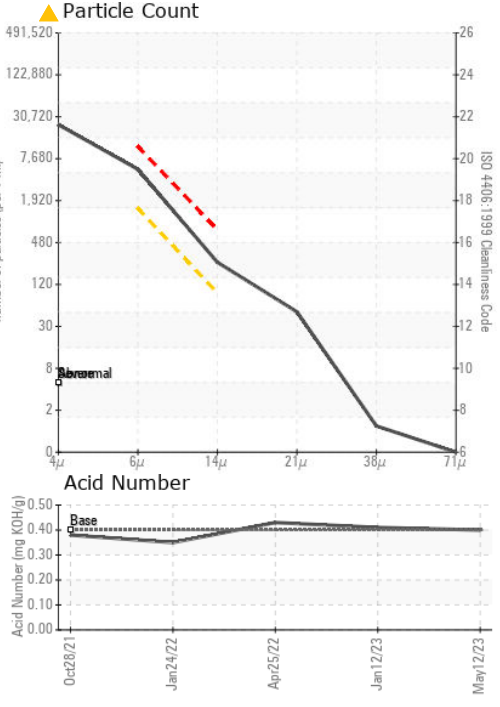
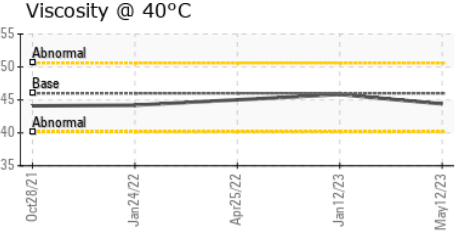
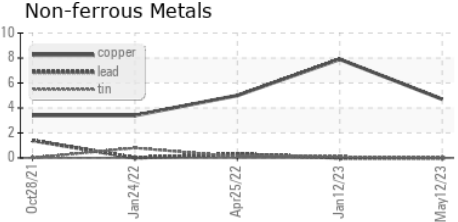
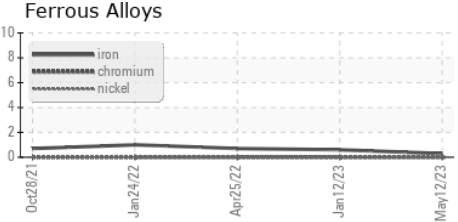
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.4	45.83	45.02

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC106378 **Received** : 24 Aug 2023
Lab Number : 05933599 **Diagnosed** : 25 Aug 2023
Unique Number : 10618870 **Diagnostician** : Don Baldrige
Test Package : IND 2

FLEX-N-GATE
 1400 ROCHESTER RD
 TROY, MI
 US 48083
 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)

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