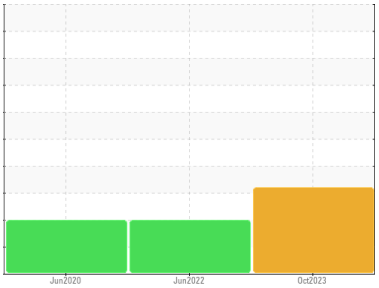
PROBLEM SUMMARY

Sample Rating Trend

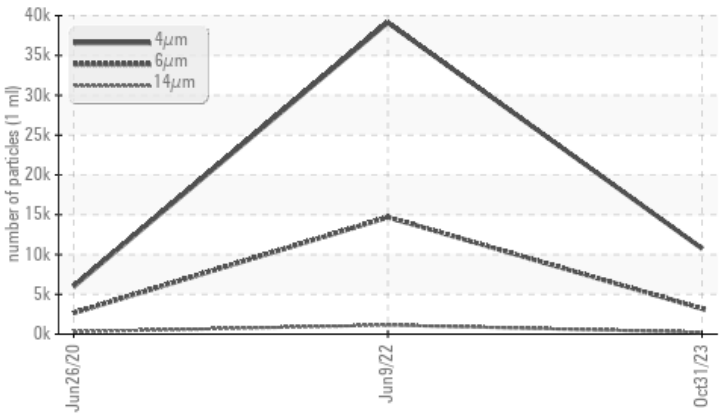


WATER

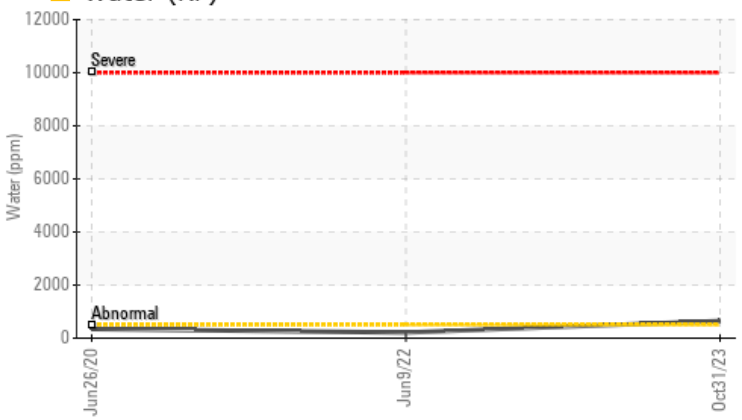
Machine Id
2671561 (S/N 1267)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water (KF)



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**	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ **0.064**	0.021	0.034
ppm Water	ppm	ASTM D6304	>500	▲ **647.4**	210.7	344.0
Particles >6µm		ASTM D7647	>1300	▲ **3197**	▲ 14687	▲ 2654
Particles >14µm		ASTM D7647	>80	▲ **236**	▲ 1142	▲ 298
Particles >21µm		ASTM D7647	>20	▲ **50**	▲ 167	▲ 83
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/19/15**	▲ 22/21/17	▲ 19/15

Customer Id: FULUNIKC
Sample No.: KC125934
Lab Number: 05997986
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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

09 Jun 2022 Diag: Jonathan Hester

ISO

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

26 Jun 2020 Diag: Angela Borella

ISO

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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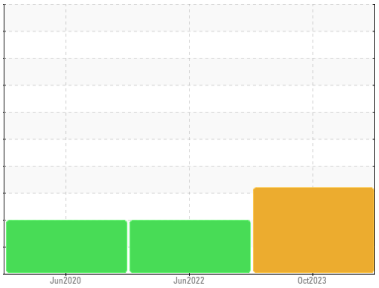
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
2671561 (S/N 1267)
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. There is a trace of moisture 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		**KC125934**	KC104847	KC83221
Sample Date		Client Info		**31 Oct 2023**	09 Jun 2022	26 Jun 2020
Machine Age	hrs	Client Info		**40704**	37491	32100
Oil Age	hrs	Client Info		**0**	5391	3294
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<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**	<1	0
Aluminum	ppm	ASTM D5185m	>10	**0**	<1	0
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**1**	7	2
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	0
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	<1
Barium	ppm	ASTM D5185m	90	**4**	0	2
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m	90	**58**	38	58
Calcium	ppm	ASTM D5185m	2	**2**	0	2
Phosphorus	ppm	ASTM D5185m		**1**	31	2
Zinc	ppm	ASTM D5185m		**8**	23	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	4	1
Sodium	ppm	ASTM D5185m		**14**	12	16
Potassium	ppm	ASTM D5185m	>20	**<1**	0	2
Water	%	ASTM D6304	>0.05	▲ **0.064**	0.021	0.034
ppm Water	ppm	ASTM D6304	>500	▲ **647.4**	210.7	344.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**10750**	39131	5973
Particles >6µm		ASTM D7647	>1300	▲ **3197**	▲ 14687	▲ 2654
Particles >14µm		ASTM D7647	>80	▲ **236**	▲ 1142	▲ 298
Particles >21µm		ASTM D7647	>20	▲ **50**	▲ 167	▲ 83
Particles >38µm		ASTM D7647	>4	**1**	▲ 5	▲ 16
Particles >71µm		ASTM D7647	>3	**0**	0	▲ 12
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **21/19/15**	▲ 22/21/17	▲ 19/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.35**	0.36	0.359

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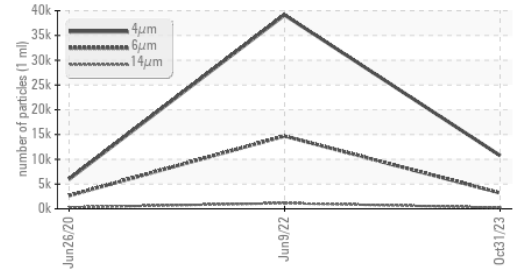
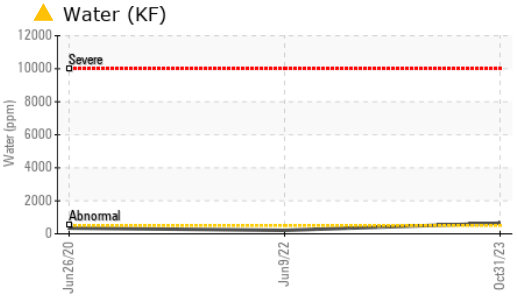
OIL ANALYSIS REPORT

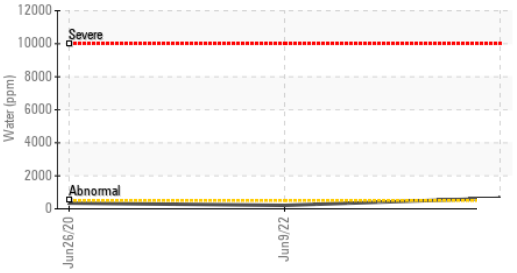
Particle Trend



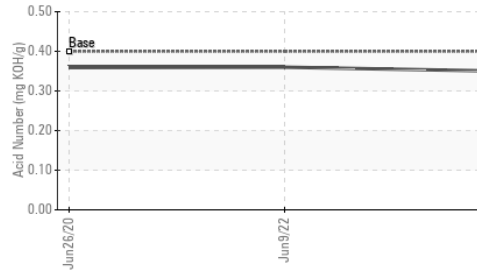
Water (KF)



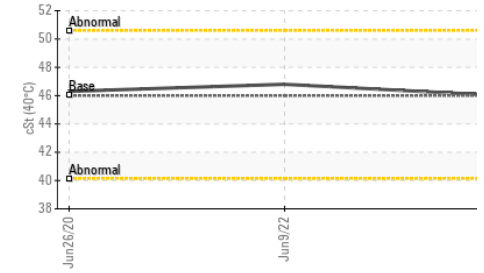
Water (KF)



Acid Number

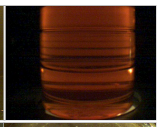


Viscosity @ 40°C



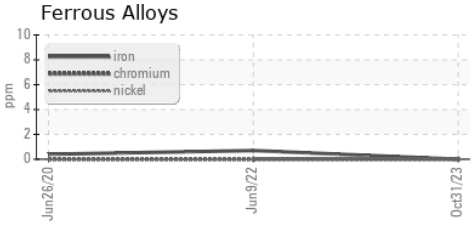
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**46.0**	46.8	46.3

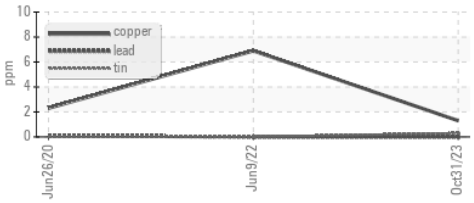
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

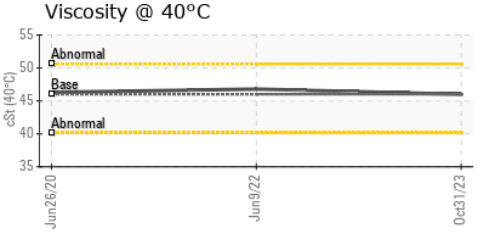
Ferrous Alloys



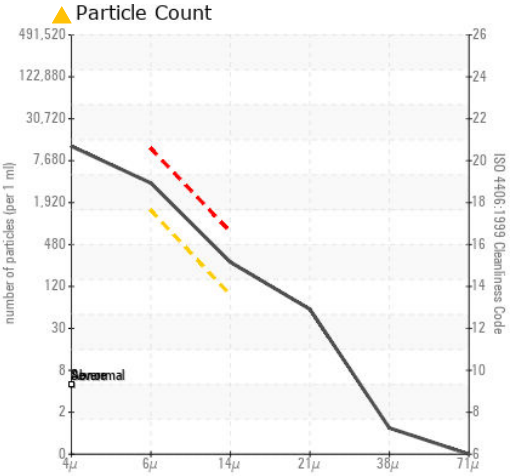
Non-ferrous Metals



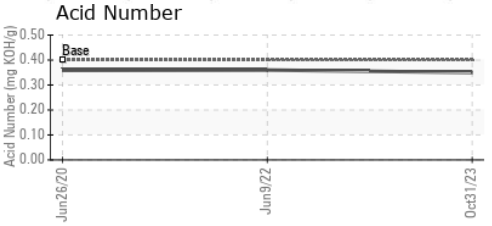
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125934
Lab Number : 05997986
Unique Number : 10726346
Test Package : IND 2

Received : 03 Nov 2023
Diagnosed : 06 Nov 2023
Diagnostician : Don Baldridge

FULL SCALE WOODWORKING
1100 LOUSONS RD
UNION, NJ
US 07083
Contact: Service Manager
T:
F:

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)