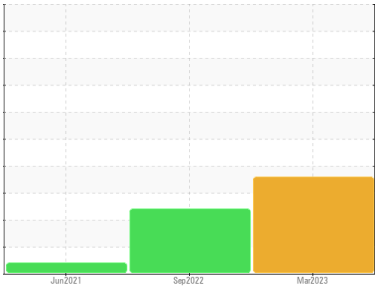
PROBLEM SUMMARY

Sample Rating Trend

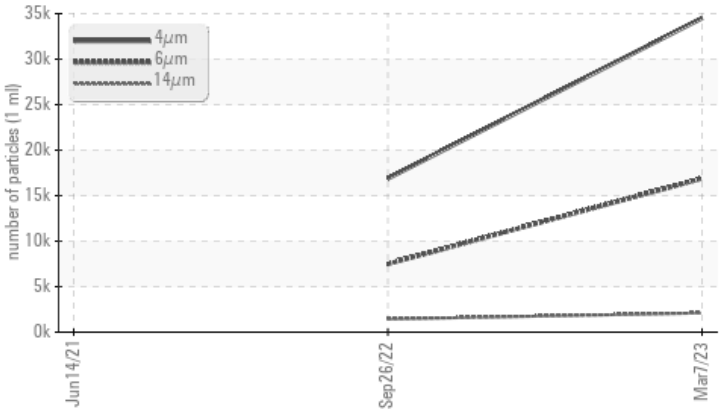


DIRT

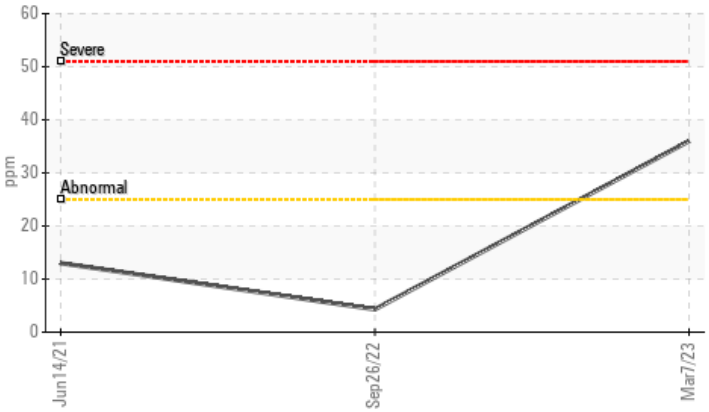
Machine Id
2037271 (S/N 1524)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Silicon (ppm)



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
Silicon	ppm	ASTM D5185m	>25	▲ **36**	4	13
Particles >6µm		ASTM D7647	>1300	▲ **16891**	▲ 7492	---
Particles >14µm		ASTM D7647	>80	▲ **2108**	▲ 1436	---
Particles >21µm		ASTM D7647	>20	▲ **419**	▲ 411	---
Particles >38µm		ASTM D7647	>4	▲ **33**	▲ 39	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **22/21/18**	▲ 21/20/18	---

Customer Id: PERROS
Sample No.: KCP54276
Lab Number: 05794534
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

26 Sep 2022 Diag: Jonathan Hester

ISO

No corrective action is recommended at this time. 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

---

14 Jun 2021 Diag: Doug Bogart

VIS DEBRIS

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris 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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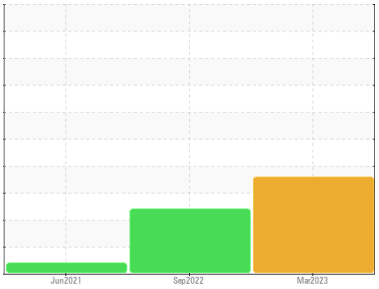
OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
2037271 (S/N 1524)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-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. Elemental level of silicon (Si) above normal.

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		**KCP54276**	KCP50094	KCP33169
Sample Date		Client Info		**07 Mar 2023**	26 Sep 2022	14 Jun 2021
Machine Age	hrs	Client Info		**149343**	145504	139723
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**3**	4	1
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	<1
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	0	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**2**	5	4
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
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**	0	13
Barium	ppm	ASTM D5185m	90	**19**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	100	**55**	4	6
Calcium	ppm	ASTM D5185m	0	**0**	0	<1
Phosphorus	ppm	ASTM D5185m	0	**2**	0	7
Zinc	ppm	ASTM D5185m	0	**6**	25	12
Sulfur	ppm	ASTM D5185m	23500	**20803**	19123	16587

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ **36**	4	13
Sodium	ppm	ASTM D5185m		**23**	2	3
Potassium	ppm	ASTM D5185m	>20	**2**	0	<1
Water	%	ASTM D6304	>0.05	**0.012**	0.007	0.002
ppm Water	ppm	ASTM D6304	>500	**129.1**	74.8	24.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**34506**	16885	---
Particles >6µm		ASTM D7647	>1300	▲ **16891**	▲ 7492	---
Particles >14µm		ASTM D7647	>80	▲ **2108**	▲ 1436	---
Particles >21µm		ASTM D7647	>20	▲ **419**	▲ 411	---
Particles >38µm		ASTM D7647	>4	▲ **33**	▲ 39	---
Particles >71µm		ASTM D7647	>3	**2**	▲ 3	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **22/21/18**	▲ 21/20/18	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.35**	0.33	0.349

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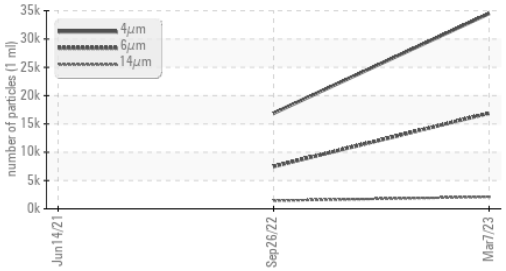
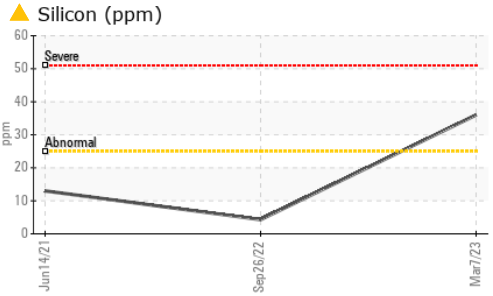
OIL ANALYSIS REPORT

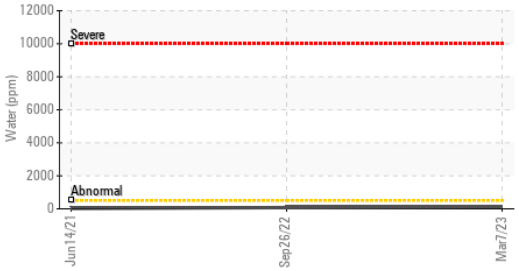
Particle Trend



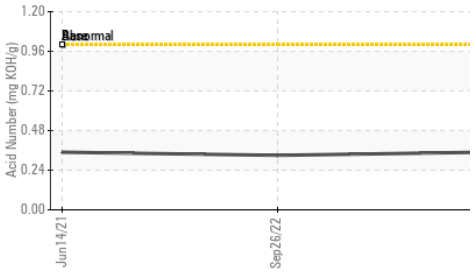
Silicon (ppm)



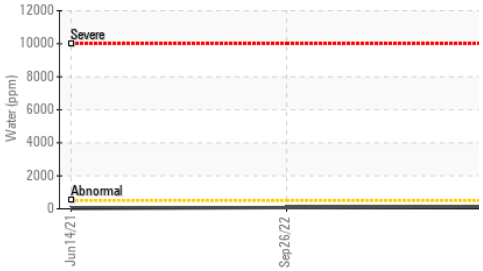
Water (KF)



Acid Number



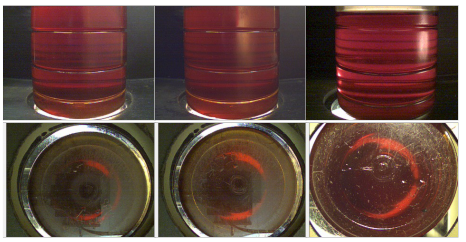
Water (KF)



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
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	▲ MODER
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

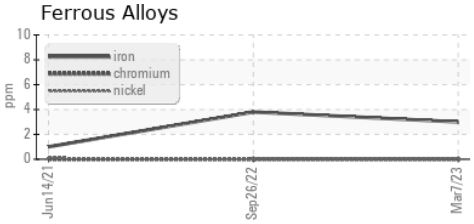
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**44.4**	44.4	45.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

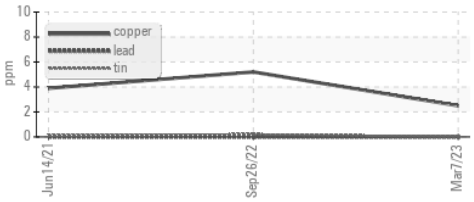


GRAPHS

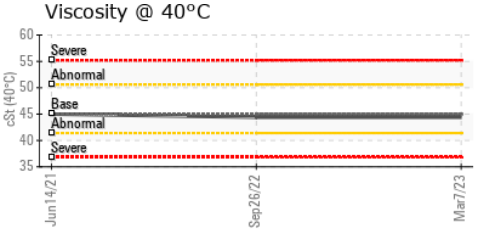
Ferrous Alloys



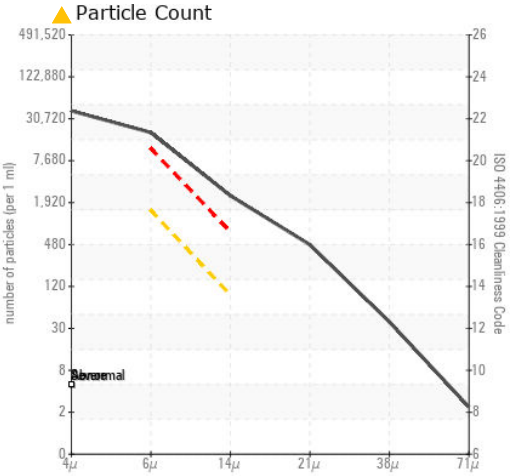
Non-ferrous Metals



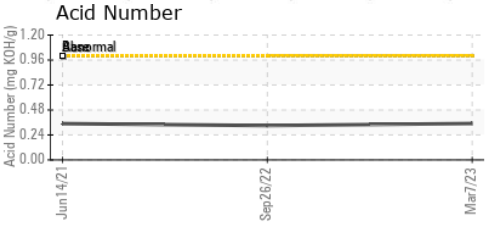
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP54276 **Received** : 17 Mar 2023
Lab Number : 05794534 **Diagnosed** : 21 Mar 2023
Unique Number : 10384218 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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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