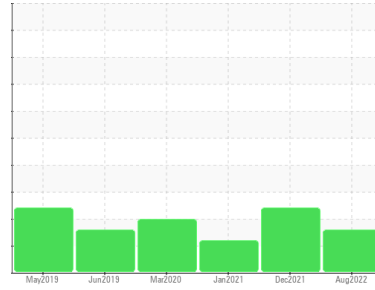


PROBLEM SUMMARY

Sample Rating Trend



ISO



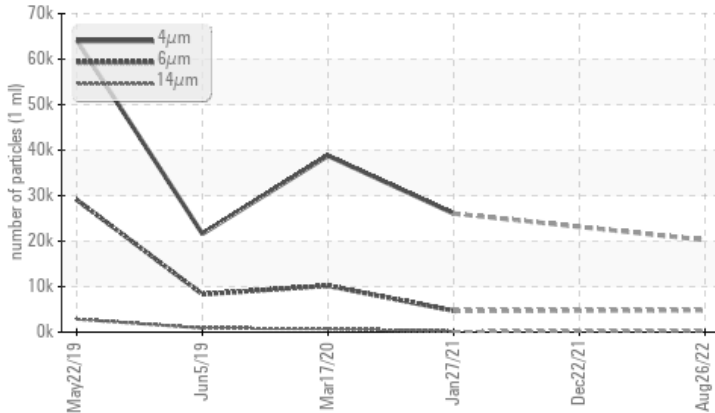
Machine Id
KAESER AS 25 6472496 (S/N 1096)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 4843	---	▲ 4695
Particles >14µm	ASTM D7647	>80	▲ 282	---	▲ 151
Particles >21µm	ASTM D7647	>20	▲ 68	---	▲ 30
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/19/15	---	▲ 19/14

Customer Id: LEVBEN
Sample No.: KC98305
Lab Number: 05631282
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

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

22 Dec 2021 Diag: Jonathan Hester

WATER



We advise that you stop the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. 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. There is a moderate concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



27 Jan 2021 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](#)



17 Mar 2020 Diag: Don Baldrige

ISO



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. 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.

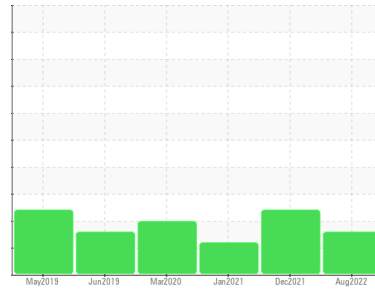
[view report](#)





Machine Id
KAESER AS 25 6472496 (S/N 1096)

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	history 1	history 2
Sample Number			KC98305	KC78539	KC72073
Sample Date			26 Aug 2022	22 Dec 2021	27 Jan 2021
Machine Age	hrs		10622	914	6682
Oil Age	hrs		3940	2200	4029
Oil Changed			Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	<1	<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	<1	0	0
Aluminum	ppm ASTM D5185m	>10	<1	<1	0
Lead	ppm ASTM D5185m	>10	<1	<1	0
Copper	ppm ASTM D5185m	>50	6	10	6
Tin	ppm ASTM D5185m	>10	<1	0	0
Antimony	ppm ASTM D5185m		---	0	0
Vanadium	ppm ASTM D5185m		0	0	0
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		0	0	0
Barium	ppm ASTM D5185m	90	4	2	<1
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		0	<1	<1
Magnesium	ppm ASTM D5185m	90	41	31	45
Calcium	ppm ASTM D5185m	2	<1	2	0
Phosphorus	ppm ASTM D5185m		<1	14	7
Zinc	ppm ASTM D5185m		4	13	0

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	0	1	<1
Sodium	ppm ASTM D5185m		13	11	11
Potassium	ppm ASTM D5185m	>20	3	0	<1
Water	% ASTM D6304	>0.05	0.016	▲ 0.285	0.029
ppm Water	ppm ASTM D6304	>500	168.2	▲ 2850	294.3

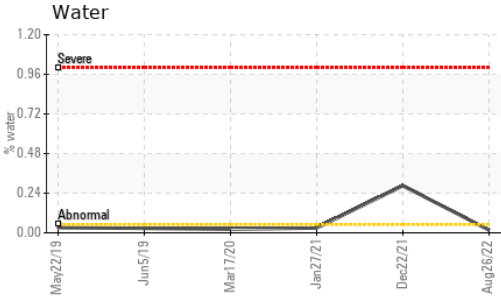
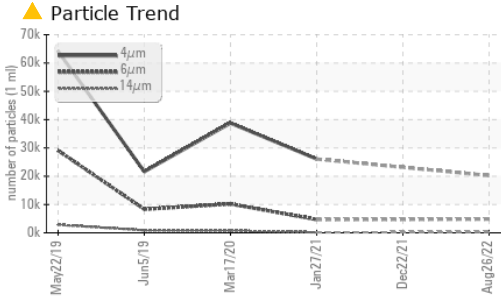
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		20241	---	26068
Particles >6µm	ASTM D7647	>1300	▲ 4843	---	▲ 4695
Particles >14µm	ASTM D7647	>80	▲ 282	---	▲ 151
Particles >21µm	ASTM D7647	>20	▲ 68	---	▲ 30
Particles >38µm	ASTM D7647	>4	2	---	0
Particles >71µm	ASTM D7647	>3	0	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/19/15	---	▲ 19/14

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.32	0.361	0.315

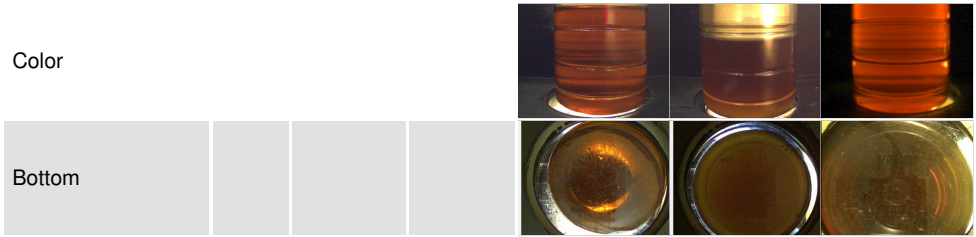
OIL ANALYSIS REPORT



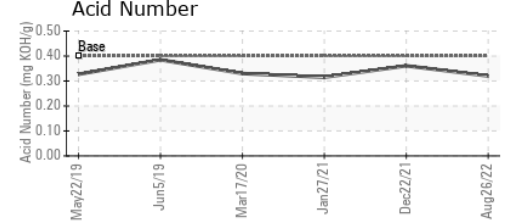
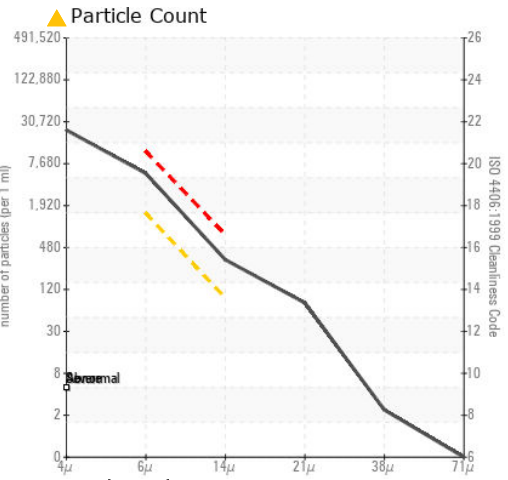
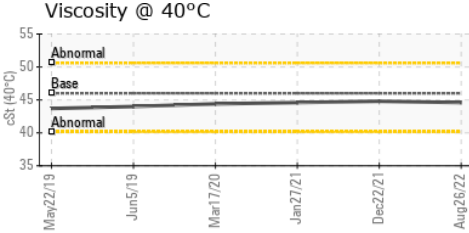
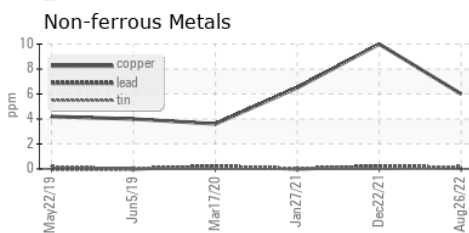
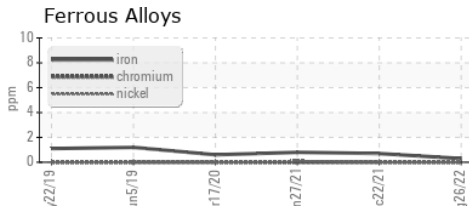
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	HEAVY	NONE
Debris	scalar	*Visual	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 46	44.6	44.8	44.6

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC98305 **Received** : 31 Aug 2022
Lab Number : 05631282 **Diagnosed** : 01 Sep 2022
Unique Number : 10115803 **Diagnostician** : Don Baldrige
Test Package : IND 2

LEVALLEY CHEVROLET
 2130 M-139
 BENTON HARBOR, MI
 USA 49022
 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)

T:
F: