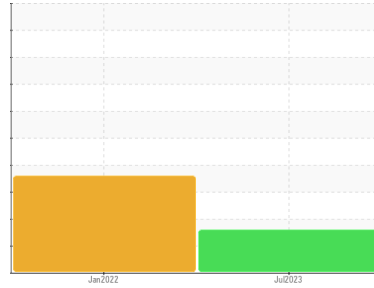




PROBLEM SUMMARY

Sample Rating Trend



ISO

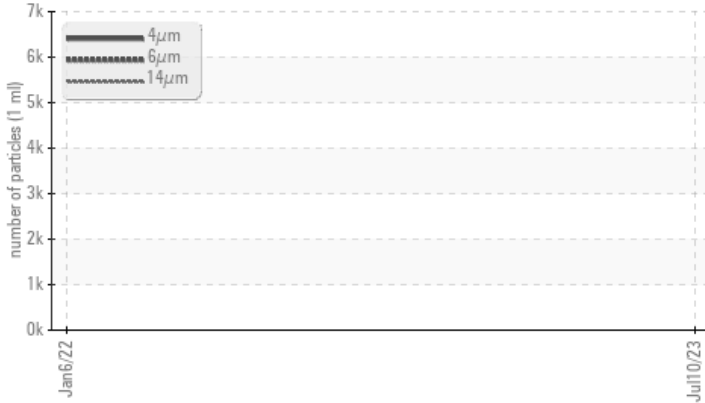


Machine Id
KAESER 5977323

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	---
Particles >6µm	ASTM D7647	>1300	▲ 2082	---	---
Particles >14µm	ASTM D7647	>80	▲ 167	---	---
Particles >21µm	ASTM D7647	>20	▲ 50	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/15	---	---

Customer Id: LAUFORFL
Sample No.: KC53926
Lab Number: 05902326
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

06 Jan 2022 Diag: Doug Bogart

WATER



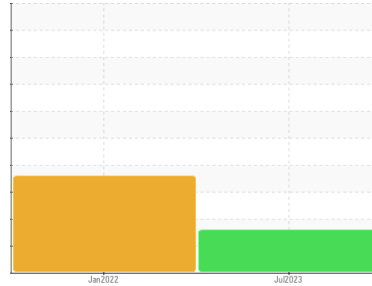
Oil and filter change at the time of sampling has been noted. We recommend an early resample in hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER 5977323

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	history1	history2
Sample Number	Client Info		KC53926	KC91710	---
Sample Date	Client Info		10 Jul 2023	06 Jan 2022	---
Machine Age	hrs	Client Info	11956	7582	---
Oil Age	hrs	Client Info	0	7582	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	<1	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >3	0	0	---
Titanium	ppm	ASTM D5185m >3	0	0	---
Silver	ppm	ASTM D5185m >2	0	<1	---
Aluminum	ppm	ASTM D5185m >10	<1	0	---
Lead	ppm	ASTM D5185m >10	0	<1	---
Copper	ppm	ASTM D5185m >50	6	41	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	21	---
Barium	ppm	ASTM D5185m 90	0	0	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 90	36	4	---
Calcium	ppm	ASTM D5185m 2	0	2	---
Phosphorus	ppm	ASTM D5185m	0	6	---
Zinc	ppm	ASTM D5185m	57	33	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	0	<1	---
Sodium	ppm	ASTM D5185m	10	3	---
Potassium	ppm	ASTM D5185m >20	3	2	---
Water	%	ASTM D6304 >0.05	0.026	▲ 0.237	---
ppm Water	ppm	ASTM D6304 >500	263.3	▲ 2370	---

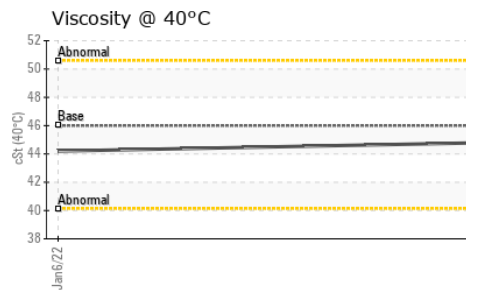
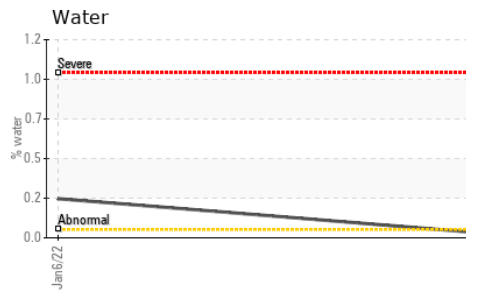
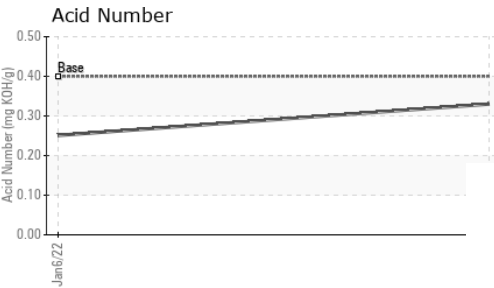
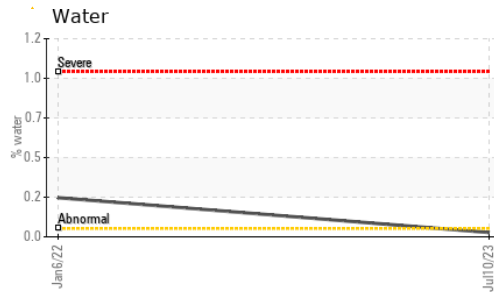
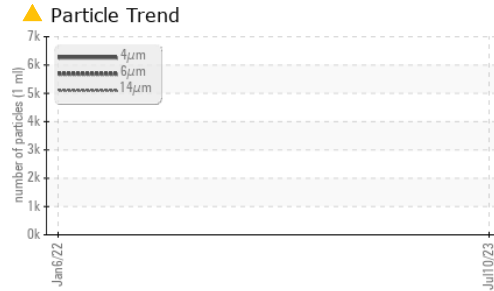
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		6573	---	---
Particles >6µm	ASTM D7647 >1300		▲ 2082	---	---
Particles >14µm	ASTM D7647 >80		▲ 167	---	---
Particles >21µm	ASTM D7647 >20		▲ 50	---	---
Particles >38µm	ASTM D7647 >4		2	---	---
Particles >71µm	ASTM D7647 >3		0	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13		▲ 20/18/15	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.33	0.251	---

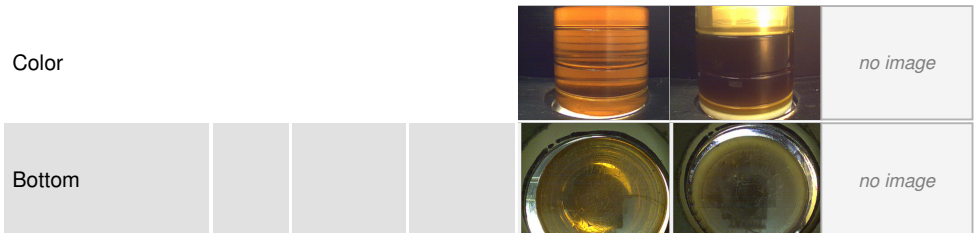
OIL ANALYSIS REPORT



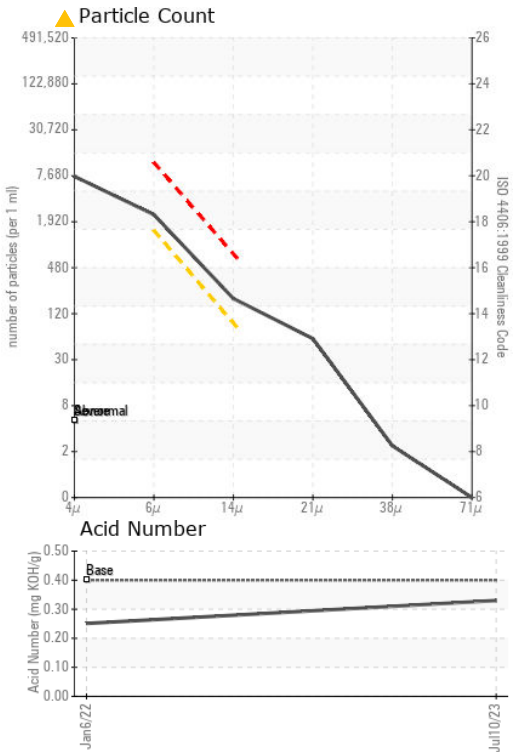
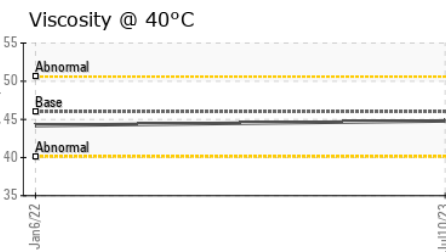
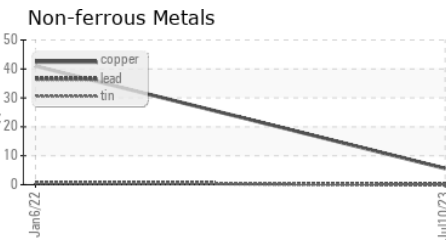
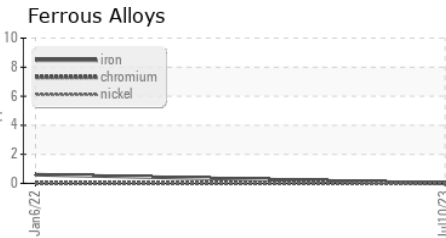
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	▲ 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.8	44.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC53926
Lab Number : 05902326
Unique Number : 10563682
Test Package : IND 2

LAUDERDALE BMW OF PEMBROKE PINES
 14800 SHERIDAN ST
 FORT LAUDERDALE, FL
 US 33330
 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: