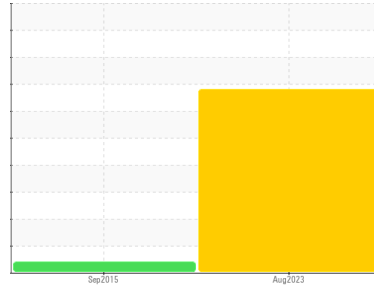




PROBLEM SUMMARY

Sample Rating Trend



DEGRADATION



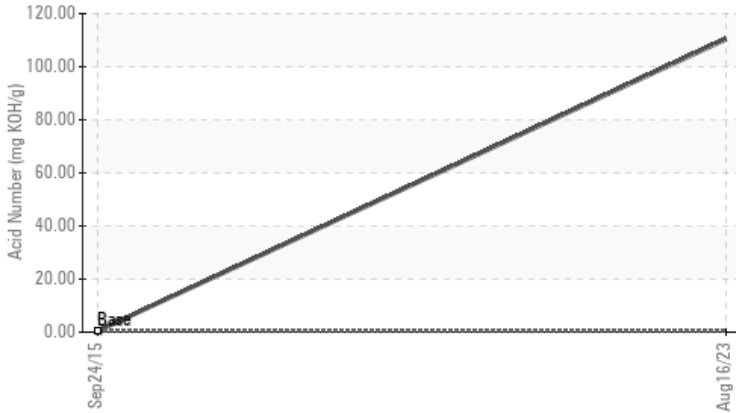
Machine Id
KAESER BSD 50 3171294 (S/N 1672)

Component
Compressor

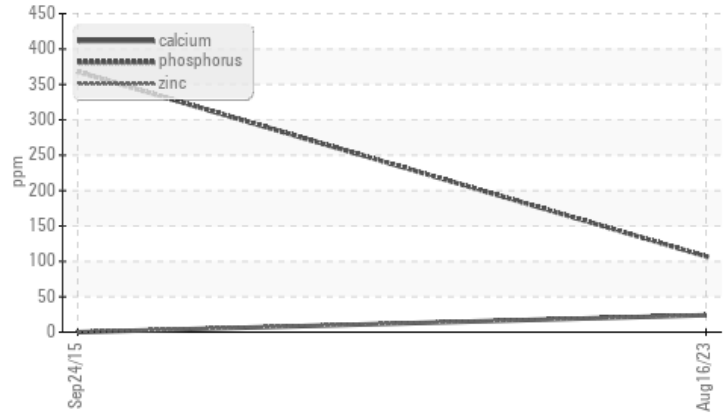
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

Acid Number



Additives



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that the oil was too thick to perform some of the normal laboratory tests. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ATTENTION	---
Boron	ppm	ASTM D5185m		▲ 18	0	---
Calcium	ppm	ASTM D5185m	2	▲ 24	0	---
Phosphorus	ppm	ASTM D5185m		▲ 107	368	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	● 110.4	0.393	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	---
Free Water	scalar	*Visual		▲ 10.0	NEG	---

Customer Id: PERGAI
Sample No.: KC05933584
Lab Number: 05933584
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

24 Sep 2015 Diag: Doug Bogart

ADDITIVES



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

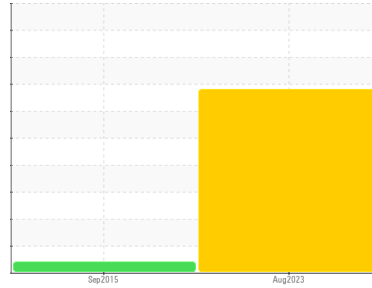
view report





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
KAESER BSD 50 3171294 (S/N 1672)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that the oil was too thick to perform some of the normal laboratory tests. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. Excessive free water present.

Fluid Condition

The AN level is well above the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KC05933584	KC03844406	---
Sample Date	Client Info			16 Aug 2023	24 Sep 2015	---
Machine Age	hrs	Client Info		8057	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				SEVERE	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	<1	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>3	0	0	---
Titanium	ppm	ASTM D5185m	>3	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>50	2	<1	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Antimony	ppm	ASTM D5185m		---	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

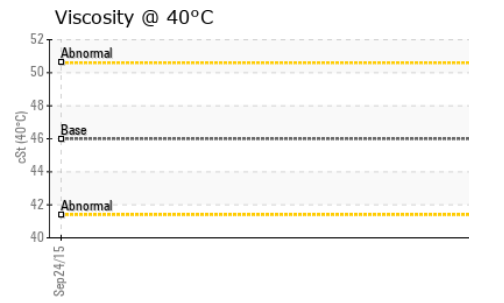
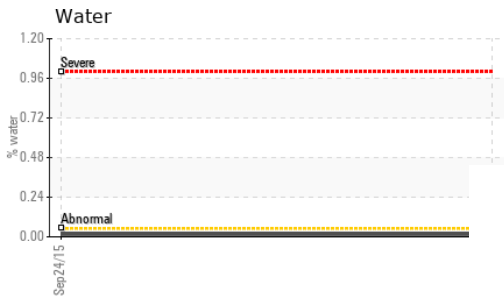
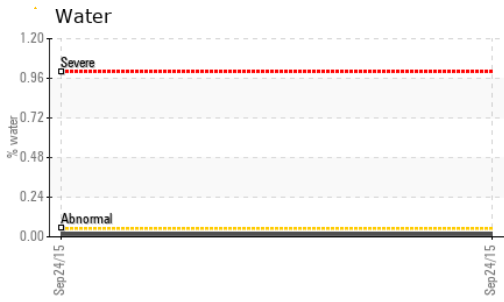
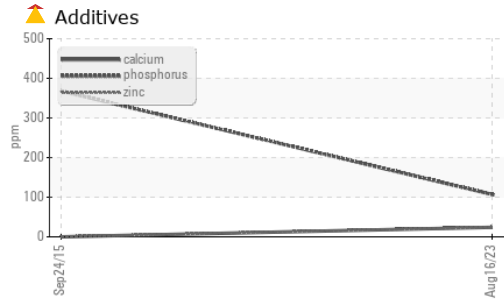
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		▲ 18	0	---
Barium	ppm	ASTM D5185m	90	7	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	90	7	<1	---
Calcium	ppm	ASTM D5185m	2	▲ 24	0	---
Phosphorus	ppm	ASTM D5185m		▲ 107	368	---
Zinc	ppm	ASTM D5185m		24	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	<1	---
Sodium	ppm	ASTM D5185m		8	1	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
Water	%	ASTM D6304	>0.05	---	0.015	---
ppm Water	ppm	ASTM D6304	>500	---	150	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		---	410	---
Particles >6µm		ASTM D7647	>1300	---	223	---
Particles >14µm		ASTM D7647	>80	---	38	---
Particles >21µm		ASTM D7647	>20	---	12	---
Particles >38µm		ASTM D7647	>4	---	1	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	---	15/12	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	● 110.4	0.393	---

OIL ANALYSIS REPORT



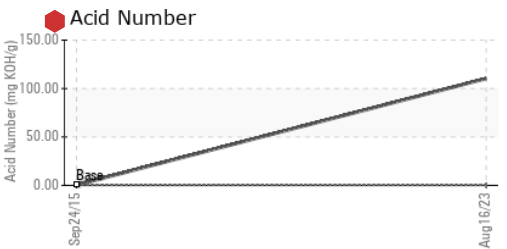
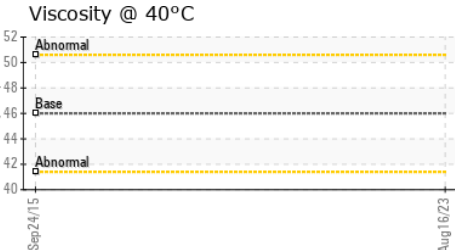
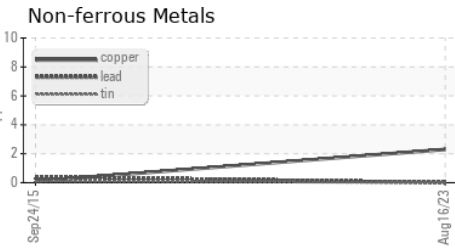
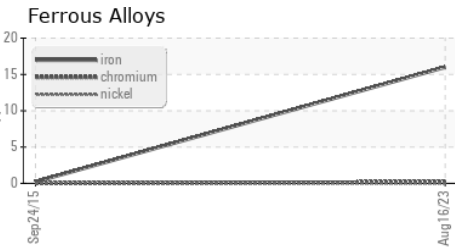
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	SOLID	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ 10.0	NEG

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	---	45.08

PARAMETER	method	limit/base	current	history1	history2
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PARAMETER	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC05933584 **Received** : 24 Aug 2023
Lab Number : 05933584 **Diagnosed** : 28 Aug 2023
Unique Number : 10618855 **Diagnostician** : Jonathan Hester
Test Package : IND 2

PERDUE FARMS
 1155 CANDLER RD
 GAINESVILLE, GA
 US 30507
 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: