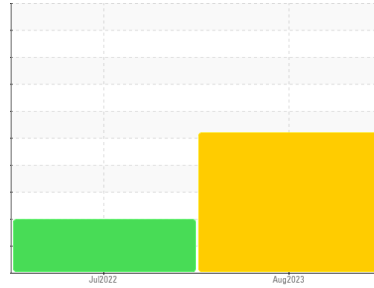




# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



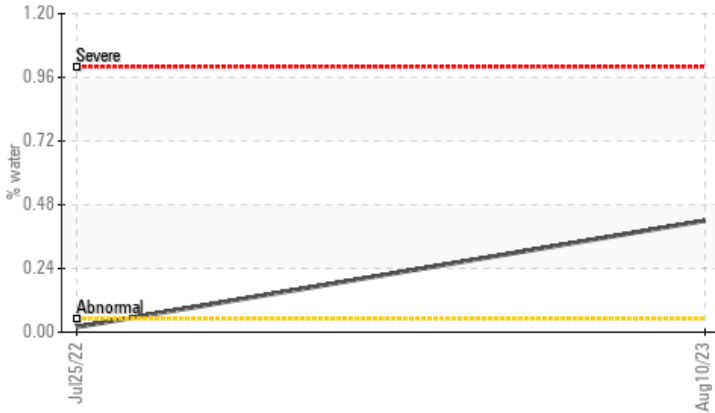
Machine Id  
**3025700 (S/N 1029)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Water



## RECOMMENDATION

Oil and 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.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ <b>0.420</b>	0.019	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>4200</b>	199.9	---
Silt	scalar	*Visual	NONE	▲ <b>MODER</b>	NONE	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	LIGHT	---
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	NORML	---
Free Water	scalar	*Visual		▲ <b>1.0</b>	NEG	---

Customer Id: XERSAN  
Sample No.: KCP48047  
Lab Number: 05924284  
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](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto: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.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

25 Jul 2022 Diag: Don Baldrige

ISO



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. 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.

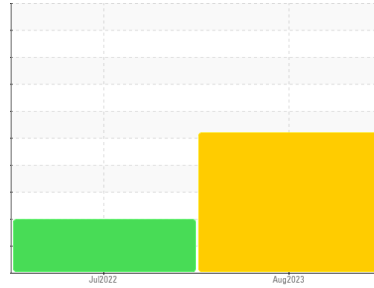
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**3025700 (S/N 1029)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and 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.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. Free water present.

### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCP48047</b>	KCP51604	---
Sample Date	Client Info			<b>10 Aug 2023</b>	25 Jul 2022	---
Machine Age	hrs	Client Info		<b>32605</b>	29994	---
Oil Age	hrs	Client Info		<b>0</b>	3000	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	4	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

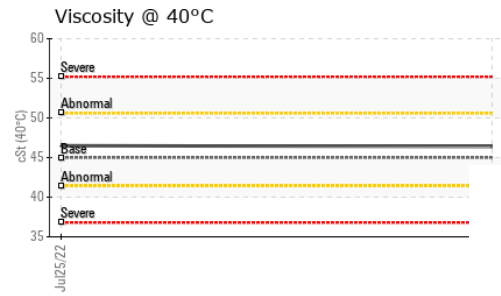
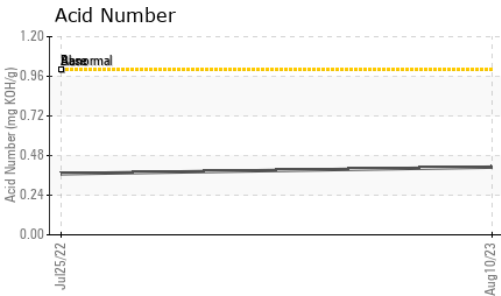
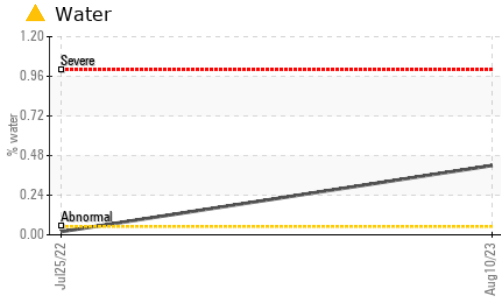
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	90	<b>6</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>57</b>	32	---
Calcium	ppm	ASTM D5185m	0	<b>3</b>	<1	---
Phosphorus	ppm	ASTM D5185m	0	<b>6</b>	8	---
Zinc	ppm	ASTM D5185m	0	<b>10</b>	22	---
Sulfur	ppm	ASTM D5185m	23500	<b>22381</b>	23204	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	---
Sodium	ppm	ASTM D5185m		<b>13</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.420</b>	0.019	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 4200</b>	199.9	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		---	17284	---
Particles >6µm		ASTM D7647	>1300	---	<b>▲ 4429</b>	---
Particles >14µm		ASTM D7647	>80	---	<b>▲ 426</b>	---
Particles >21µm		ASTM D7647	>20	---	<b>▲ 165</b>	---
Particles >38µm		ASTM D7647	>4	---	<b>▲ 18</b>	---
Particles >71µm		ASTM D7647	>3	---	<b>0</b>	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	---	<b>▲ 21/19/16</b>	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.41</b>	0.37	---

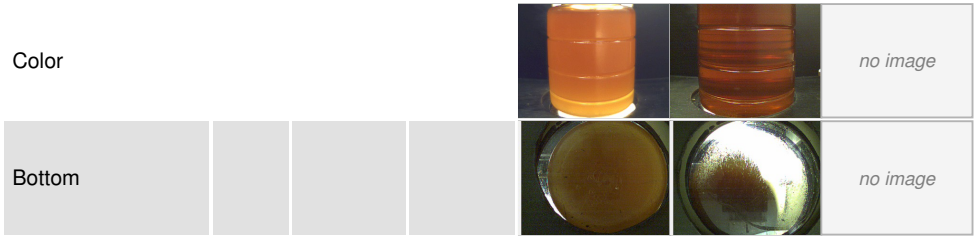
# OIL ANALYSIS REPORT



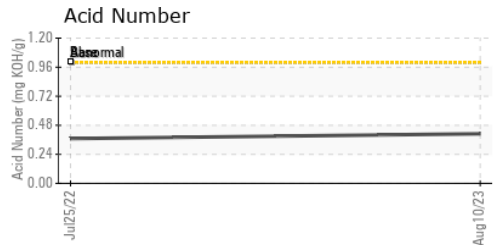
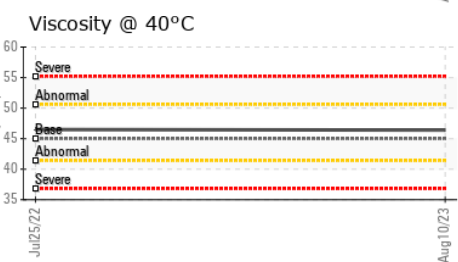
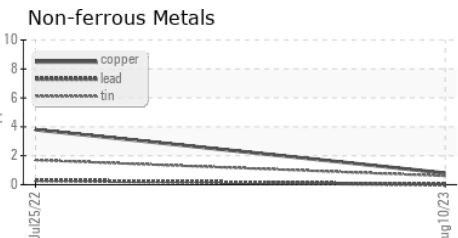
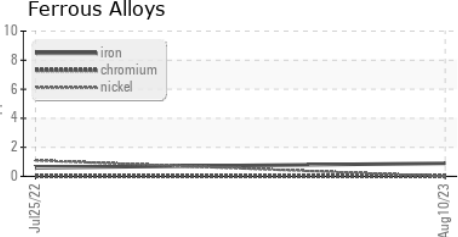
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.4	46.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP48047 **Received** : 14 Aug 2023  
**Lab Number** : 05924284 **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10604231 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**XERNUS CORPORATION**  
 372 PIERCY RD  
 SAN JOSE, CA  
 US 95138  
 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: