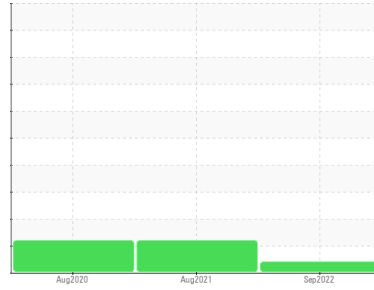


# PROBLEM SUMMARY

Sample Rating Trend



**VIS DEBRIS**



Machine Id  
**KAESER 2484373 (S/N 1066)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## 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. 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	ABNORMAL
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	<b>▲ MODER</b>

**Customer Id:** INDGAS  
**Sample No.:** KCP46149  
**Lab Number:** 05644255  
**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

### 03 Aug 2021 Diag: Doug Bogart

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 acceptable for the time in service.

view report



### 27 Aug 2020 Diag: Don Baldrige

SEDIMENT



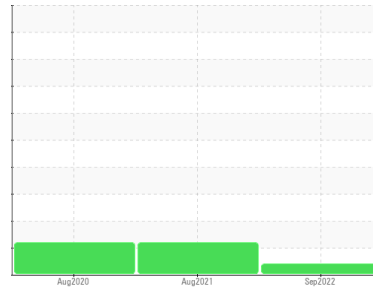
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**VIS DEBRIS**



Machine Id  
**KAESER 2484373 (S/N 1066)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-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. 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

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

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KCP46149</b>	KCP41713	KCP29438
Sample Date			<b>08 Sep 2022</b>	03 Aug 2021	27 Aug 2020
Machine Age	hrs		<b>62575</b>	60925	58627
Oil Age	hrs		<b>3000</b>	3000	3000
Oil Changed			<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>0</b>	0	8
Chromium	ppm ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m	>10	<b>0</b>	<1	<1
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm ASTM D5185m	>50	<b>16</b>	38	30
Tin	ppm ASTM D5185m	>10	<b>0</b>	0	0
Antimony	ppm ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	<b>0</b>	<1	<1
Barium	ppm ASTM D5185m	90	<b>&lt;1</b>	0	<1
Molybdenum	ppm ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m	100	<b>4</b>	<1	8
Calcium	ppm ASTM D5185m	0	<b>&lt;1</b>	0	0
Phosphorus	ppm ASTM D5185m	0	<b>3</b>	8	<1
Zinc	ppm ASTM D5185m	0	<b>71</b>	0	103
Sulfur	ppm ASTM D5185m	23500	<b>17208</b>	13552	23014

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>1</b>	1	2
Sodium	ppm ASTM D5185m		<b>0</b>	0	3
Potassium	ppm ASTM D5185m	>20	<b>0</b>	0	2
Water	% ASTM D6304	>0.05	<b>0.012</b>	0.008	0.027
ppm Water	ppm ASTM D6304	>500	<b>120.0</b>	87.4	273.7

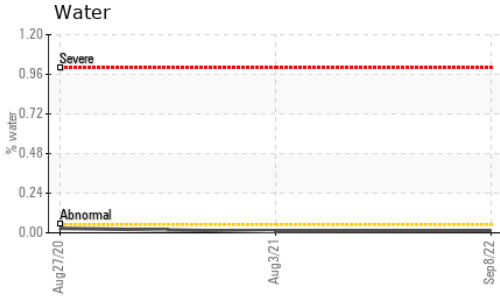
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>---</b>	20964	---
Particles >6µm	ASTM D7647	>1300	<b>---</b>	▲ 6657	---
Particles >14µm	ASTM D7647	>80	<b>---</b>	▲ 542	---
Particles >21µm	ASTM D7647	>20	<b>---</b>	▲ 133	---
Particles >38µm	ASTM D7647	>4	<b>---</b>	3	---
Particles >71µm	ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>---</b>	▲ 20/16	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	<b>0.36</b>	0.265	0.386

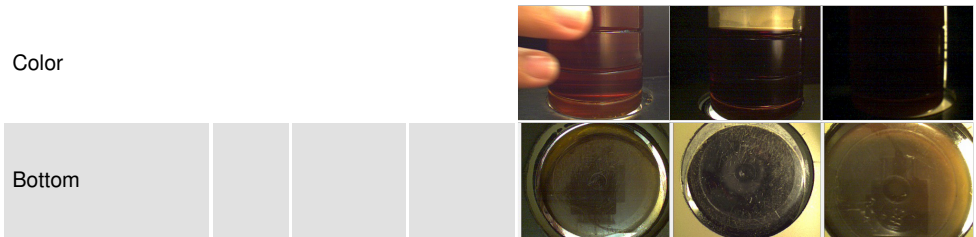
# OIL ANALYSIS REPORT



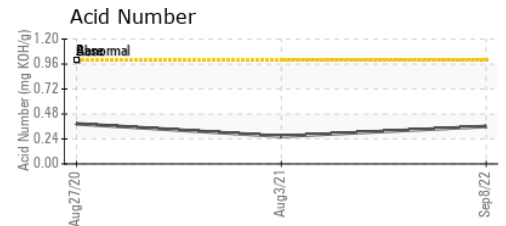
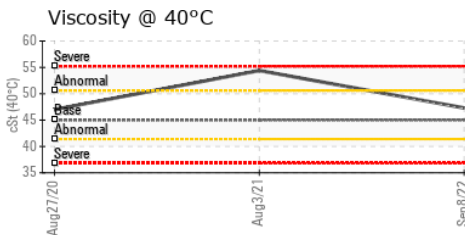
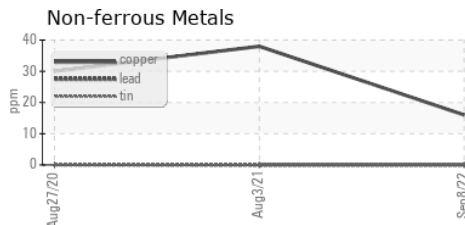
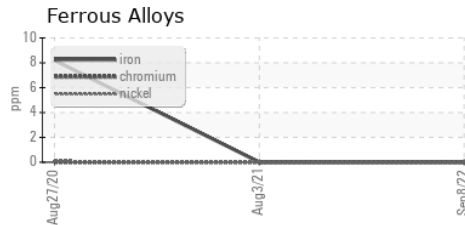
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	▲ MODER	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.3	54.4

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP46149 **Received** : 16 Sep 2022  
**Lab Number** : 05644255 **Diagnosed** : 20 Sep 2022  
**Unique Number** : 10138794 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**INDUSTRIAL GLASS TECHNOLOGIES**  
 112 SUPERIOR STAINLESS RD  
 GASTONIA, NC  
 USA 28052  
 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: