

# **PROBLEM SUMMARY**

Sample Rating Trend



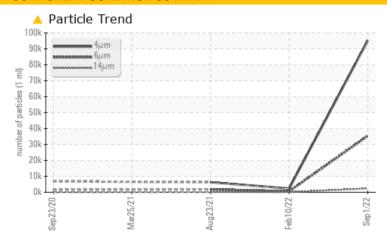
KAESER 6524017

Component

Compressor

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

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status		ABNORMAL	ATTENTION	ATTENTION			
Particles >6µm	ASTM D7647 >13	<b>300 △ 35402</b>	595	<u>▲</u> 1825			
Particles >14μm	ASTM D7647 >8	0 <b>4 2390</b>	<u> </u>	<u> </u>			
Particles >21µm	ASTM D7647 >2	0 442	<b>△</b> 33	<b>△</b> 30			
Oil Cleanliness	ISO 4406 (c) >	/17/13 🔺 24/22/18	▲ 16/14	<u></u> 18/14			

Customer Id: KROAUR Sample No.: KCP41315 Lab Number: 05644907 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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			?	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

## 10 Feb 2022 Diag: Angela Borella

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 moderate 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.



# 23 Aug 2021 Diag: Don Baldridge

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 moderate 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

# 25 Mar 2021 Diag: Don Baldridge

VIS DEBRIS

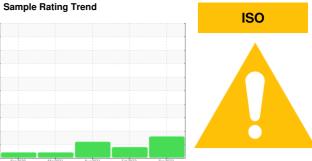


No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal.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





# **OIL ANALYSIS REPORT**



# **KAESER 6524017**

Component

Compressor

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

# **DIAGNOSIS**

## Recommendation

Oil and filter change at the time of sampling has been noted. 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.

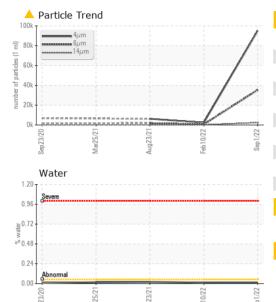
## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

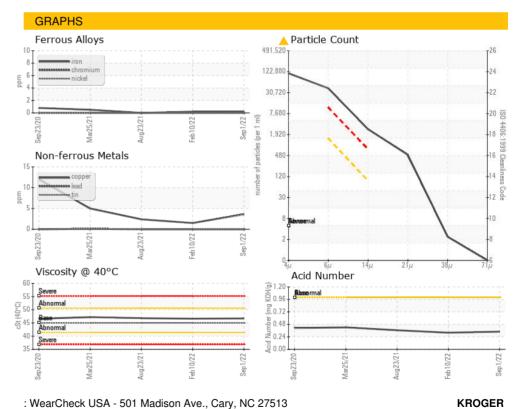
		Sep2020	Mar2021	Aug2021 Feb2022	Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP41315	KCP48660	KCP37838
Sample Date				01 Sep 2022	10 Feb 2022	23 Aug 2021
Machine Age	hrs			14089	11664	9841
Oil Age	hrs			2425	2000	4383
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	2	2
Tin	ppm	ASTM D5185m	>10	0	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	15
Barium	ppm	ASTM D5185m	90	17	23	25
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	45	79	62
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	3	6	0
Zinc	ppm	ASTM D5185m	0	3	0	<1
Sulfur	ppm	ASTM D5185m	23500	17479	16291	18371
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		15	21	19
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.010	0.011	0.021
ppm Water	ppm	ASTM D6304	>500	109.7	110.6	214.8
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		95122	2382	6252
Particles >6µm		ASTM D7647		<u>^</u> 35402	595	<u>▲</u> 1825
Particles >14μm		ASTM D7647	>80	<u>^</u> 2390	<u> </u>	<u> </u>
Particles >21μm		ASTM D7647	>20	<u>442</u>	<b>▲</b> 33	<b>△</b> 30
Particles >38μm		ASTM D7647	>4	2	2	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>4</u> 24/22/18	<b>△</b> 16/14	<u>▲</u> 18/14
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	46.7	46.6	46.8
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						







Laboratory Sample No.

Lab Number

: KCP41315 : 05644907

**Bottom** 

Unique Number : 10139446

Received Diagnosed

: 19 Sep 2022

: 20 Sep 2022 Diagnostician : Angela Borella

**KROGER** 1933 TOWER RD AURORA, CO USA 80011

Contact: Service Manager

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) Certificate L2367 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.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: