

# **PROBLEM SUMMARY**

Sample Rating Trend

ISO

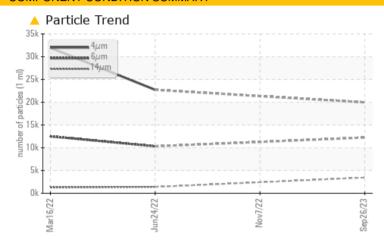
 $^{\text{Machine Id}}_{6865965} \text{ (S/N 1023)}$ 

Component

Compressor

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





# RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >6µm	ASTM D7647	>1300	<b>12243</b>		<u>▲</u> 10311				
Particles >14µm	ASTM D7647	>80	<b>4</b> 3453		<b>▲</b> 1389				
Particles >21µm	ASTM D7647	>20	<b>1359</b>		<b>▲</b> 412				
Particles >38μm	ASTM D7647	>4	<b>60</b>		<u> </u>				
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u>^</u> 21/21/19		<u>22/21/18</u>				

Customer Id: GRAGREKCP Sample No.: KCPA000812 Lab Number: 05965408 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**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

# 07 Nov 2022 Diag: Don Baldridge

VIS DEBRIS



No corrective action is recommended at this time. The 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.



# 24 Jun 2022 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. The 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 suitable for further service.



### 16 Mar 2022 Diag: Don Baldridge

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. 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**



ISO

# 6865965 (S/N 1023)

Compressor

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

# **DIAGNOSIS**

### Recommendation

No corrective action is recommended at this time. The 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.

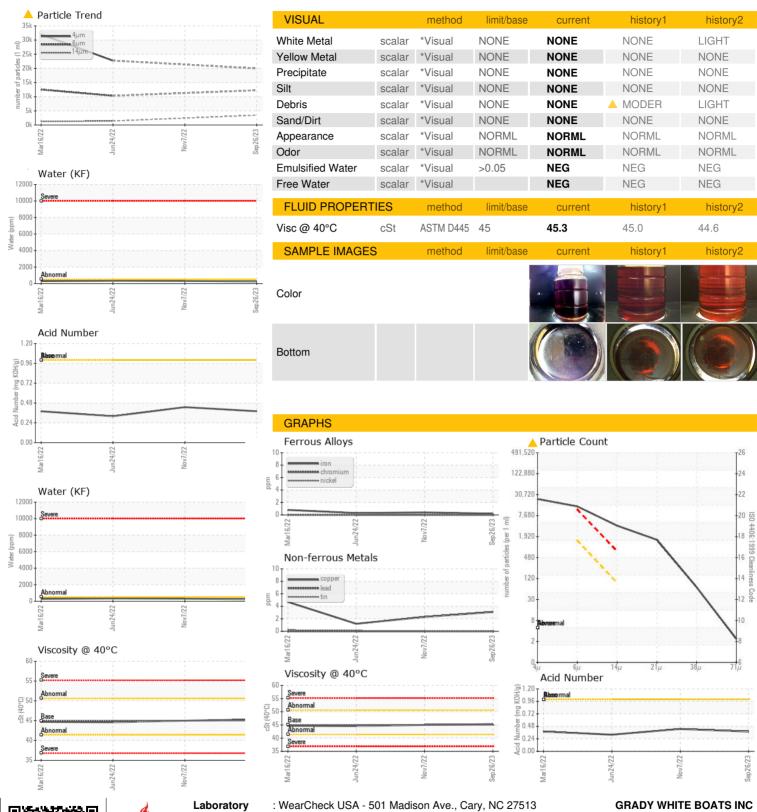
# **Fluid Condition**

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

		Mar202	2 Jun2022	Nov2022 Se	2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA000812	KCP40270D	KCP02112
Sample Date		Client Info		26 Sep 2023	07 Nov 2022	24 Jun 2022
Machine Age	hrs	Client Info		15911	12448	10734
Oil Age	hrs	Client Info		0	2893	3285
Oil Changed	1110	Client Info		N/A	Not Changd	Not Changd
Sample Status		Chorte triio		ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current		history2
					history1	
Iron Chromium	ppm	ASTM D5185m	>50 >10	<1 0	<1 0	<1 0
	ppm			-		
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	5	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		3	2	1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	3
Barium	ppm	ASTM D5185m	90	89	95	92
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	96	91	87
Calcium	ppm	ASTM D5185m	0	0	3	3
Phosphorus	ppm	ASTM D5185m	0	0	3	<1
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	23500	18000	22204	19647
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		17	13	11
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.023	0.031	0.033
ppm Water	ppm	ASTM D6304	>500	237.1	313.3	339.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		19970		22714
Particles >6µm		ASTM D7647	>1300	<u>12243</u>		<u></u> 10311
Particles >14μm		ASTM D7647	>80	<b>4</b> 3453		<b>1389</b>
Particles >21µm		ASTM D7647	>20	<b>1359</b>		<u></u> 412
Particles >38µm		ASTM D7647	>4	<b>60</b>		<u> </u>
Particles >71µm		ASTM D7647	>3	2		1
		ASTM D7647 ISO 4406 (c)	>3 >/17/13	2 <u>21/21/19</u>		1 <u>22/21/18</u>
Particles >71μm	TION					



# **OIL ANALYSIS REPORT**







Sample No. Lab Number **Unique Number** 

: KCPA000812 : 05965408

Received

: 29 Sep 2023 Diagnosed : 02 Oct 2023 Diagnostician : Angela Borella

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 10671959

\* - 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)

Report Id: GRAGREKCP [WUSCAR] 05965408 (Generated: 10/02/2023 17:56:03) Rev: 1

5121 MARTIN LUTHER KING JR HWY

US 27834

T: F:

GREENVILLE, NC

Contact: J. TYSON

jtyson@gradywhite.com