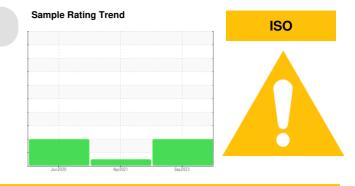


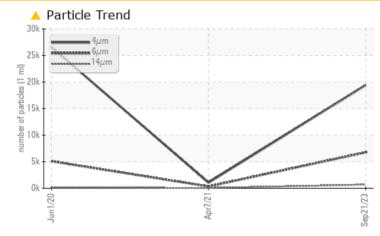
## **PROBLEM SUMMARY**



### Machine Id 6546039 (S/N 1008) Component

Compressor Fluid KAESER SIGMA (OEM) S-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	NORMAL	ABNORMAL			
Particles >6µm	ASTM D7647	>1300	<u> </u>	338	▲ 5095			
Particles >14µm	ASTM D7647	>80	🔺 685	51	<b>1</b> 27			
Particles >21µm	ASTM D7647	>20	<u> </u>	18	<b>A</b> 27			
Particles >38µm	ASTM D7647	>4	<u> </u>	2	<b>1</b> 0			
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>	16/13	<b>2</b> 0/14			

Customer Id: RWLCOR Sample No.: KCP45965 Lab Number: 05981230 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 <u>customerservice@wearcheck.com</u>

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



### 07 Apr 2021 Diag: Don Baldridge

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



### 01 Jun 2020 Diag: Don Baldridge



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 suitable for further service.





## **OIL ANALYSIS REPORT**

# Sample Rating Trend ISO

Machine Id 6546039 (S/N 1008) Component

Compressor

Fluid KAESER SIGMA (OEM) S-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.

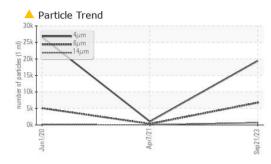
	2020
Sample Date Client Info 21 Sep 2023 07 Apr 2021 01 Jur   Machine Age hrs Client Info 18808 10138 6518   Oil Age hrs Client Info 3000 3567 2814   Oil Changed Client Info Changed Changed Changed Changed   Sample Status Client Info Changed Changed Changed Changed Changed   WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 <1 <1   Chromium ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >3 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1   Lead ppm ASTM D5185m 50 10 5	ed RMAL
Machine Age Oil AgehrsClient Info18808101386518Oil AgehrsClient Info300035672814Oil ChangedClient InfoChangedChangedChangedSample StatusClient InfoABNORMALNORMALABNOWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>500<1<1ChromiumppmASTM D5185m>30000NickelppmASTM D5185m>3000SilverppmASTM D5185m>3000AluminumppmASTM D5185m>1000<1LeadppmASTM D5185m>100<1<1CopperppmASTM D5185m>1000<1	jed RMAL
Oil AgehrsClient Info300035672814Oil ChangedClient InfoChangedChangedChangedSample StatusImageClient InfoABNORMALNORMALABNORMALWEAR METALSmethodlimit/basecurrenthistory1history1IronppmASTM D5185m>500<1<1ChromiumppmASTM D5185m>10000NickelppmASTM D5185m>3000TitaniumppmASTM D5185m>3000SilverppmASTM D5185m>2000AluminumppmASTM D5185m>100<11<11LeadppmASTM D5185m>501055CopperppmASTM D5185m>501055	RMAL
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Sample Status method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 <1 <1   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 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1   Lead ppm ASTM D5185m >10 0 0 <1   Copper ppm ASTM D5185m >10 0 <1 1	RMAL
WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 <1 <1   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 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1   Lead ppm ASTM D5185m >10 0 0 <1   Copper ppm ASTM D5185m >10 0 <1 5	story2
Iron ppm ASTM D5185m >50 0 <1	
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 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1   Lead ppm ASTM D5185m >10 0 0 <1   Copper ppm ASTM D5185m >50 10 5 5	
Nickel ppm ASTM D5185m >3 0 0 0   Titanium ppm ASTM D5185m >3 0 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	
Titanium ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Astm D5185m >2 0 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	
Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	
Aluminum ppm ASTM D5185m >10 0 0 <1	
Lead ppm ASTM D5185m >10 0 0 <1	
Copper ppm ASTM D5185m >50 10 5 5	
Antimony ppm ASTM D5185m  0 0	
Vanadium ppm ASTM D5185m O O O	
Cadmium ppm ASTM D5185m O O O	
The second	ators
	story2
Boron ppm ASTM D5185m 0 9 <1	
Barium ppm ASTM D5185m 90 0	
Molybdenum ppm ASTM D5185m 0	
Manganese ppm ASTM D5185m 0	
Magnesium ppm ASTM D5185m 90 0 <1	
Phosphorus ppm ASTM D5185m 0 2 13   Zing ASTM D5185m 0 2 13	
Zinc ppm ASTM D5185m 0 18 28   Sublim ASTM D5185m 10000 14040 10000	0.4
Sulfur ppm ASTM D5185m 16483 14843 160	34
	story2
Silicon ppm ASTM D5185m >25 0 0 1	
Sodium ppm ASTM D5185m <1	
Potassium ppm ASTM D5185m >20 0 0 0	
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0	
Potassium ppm ASTM D5185m >20 0 0 0	
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.	
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4μm ASTM D7647 19426 1055 266	9 <mark>story2</mark>
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1 history1   Particles >4μm ASTM D7647 19426 1055 266   Particles >6μm ASTM D7647 >1300 6761 338 509	9 <mark>story2</mark> i04
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4μm ASTM D7647 19426 1055 266	9 <mark>story2</mark> 604 95
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4μm ASTM D7647 >1300 ▲ 6761 338 ▲ 509	9 <mark>story2</mark> 604 95
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1 history1   Particles >4µm ASTM D7647 >1300 6761 338 509   Particles >14µm ASTM D7647 >80 685 51 127	9 <mark>story2</mark> 604 95
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4µm ASTM D7647 >1300 ▲ 6761 338 ▲ 509   Particles >6µm ASTM D7647 >80 ▲ 685 51 ▲ 127   Particles >21µm ASTM D7647 >20 ▲ 219 18 ▲ 27	9 <mark>story2</mark> 604 95
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm Water ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4µm ASTM D7647 >1300 ▲ 6761 338 ▲ 509   Particles >6µm ASTM D7647 >80 ▲ 685 51 127   Particles >21µm ASTM D7647 >20 219 18 27   Particles >38µm ASTM D7647 >4 12 2 10	9 story2 :04 :5 ,
Potassium ppm ASTM D5185m >20 0 0 0   Water % ASTM D6304 >0.05 0.005 0.011 0.0   ppm ASTM D6304 >500 52.2 110.9 55.   FLUID CLEANLINESS method limit/base current history1 history1   Particles >4 $\mu$ m ASTM D7647 19426 1055 266   Particles >6 $\mu$ m ASTM D7647 >1300 6761 338 509   Particles >14 $\mu$ m ASTM D7647 >20 219 18 27   Particles >38 $\mu$ m ASTM D7647 >3 1 0 8   Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 16/13 20/	9 story2 :04 :5 ,

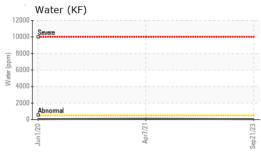
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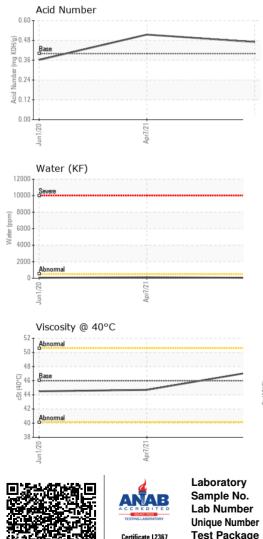
Contact/Location: Service Manager - RWLCOR



## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	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
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.3	44.7	44.5
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
						10000

Bottom

