



Machine Id

## **PROBLEM SUMMARY**

### KAESER 8342471 Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE				
Water	%	ASTM D6304	>0.05	<b>4</b> 3.704	<b>0</b> .129				
ppm Water	ppm	ASTM D6304	>500	<b>4</b> 37040	<b>1</b> 290				
Silt	scalar	*Visual	NONE	🔺 MODER	NONE				
Emulsified Water	scalar	*Visual	>0.05	<b>6.2%</b>	0.2%				
Free Water	scalar	*Visual		<mark>▲</mark> >10%	▲ 10.0				

Customer Id: SUPEAS Sample No.: KCPA016127 Lab Number: 06180691 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By			
Alert			?			

### Description

We were unable to perform a particle count due to a high concentration of particles present in this sample.

### HISTORICAL DIAGNOSIS

### WATER



**17 Apr 2023 Diag: Jonathan Hester** The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drainoff procedure for this component. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. Excessive free water present. There is a light concentration of water 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**



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### Machine Id KAESER 8342471

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

### DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

### Contamination

Excessive free water present. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016127	KCP52801	
Sample Date		Client Info		06 May 2024	17 Apr 2023	
Machine Age	hrs	Client Info		979	604	
Oil Age	hrs	Client Info		334	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	8	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	1	2	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>10	2	0	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	16	22	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Codmium	nnm	ASTM DE185m		.1	0	
Caumum	ррш	ASTIVI DSTOSIII		<1	0	
ADDITIVES	ррп	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 0 90	current 0 0	history1 0 0	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0	<1 current 0 0 <1	history1 0 0 0	 history2  
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0	<1 current 0 0 <1 <1	0 history1 0 0 0 1	 history2  
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 0 100	<1 <u>current</u> 0 0 <1 <1 36	history1           0           0           0           1           26	 history2   
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 100 0	<1 <u>current</u> 0 0 <1 <1 36 2	history1           0           0           0           1           26           3	 history2    
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 0 100 0 0 0	<1 current 0 0 <1 <1 36 2 10	history1           0           0           0           1           26           3           8	 history2      
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 1 0 100 0 0 0 0	<1 current 0 0 <1 <1 36 2 10 14	history1           0           0           0           1           26           3           8           0	 history2     
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 100 100 0 0 0 23500	<1 current 0 0 <1 <1 36 2 10 14 21427	history1           0           0           0           1           26           3           8           0           20054	 history2       
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 1 0 1 0 0 0 0 0 0 2 3 500	<1 current 0 0 <1 <1 36 2 10 14 21427 current	history1           0           0           0           0           1           26           3           8           0           20054           history1	history2        history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base 0 90 0 1 100 0 0 0 0 0 2 3500 2 3500 2 3500	<1 current 0 0 <1 <1 36 2 10 14 21427 current 2	history1           0           0           0           0           1           26           3           8           0           20054           history1           <1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	Imit/base 0 90 0 100 0 0 0 23500 >25	<1 current 0 0 <1 <1 36 2 10 14 21427 current 2 4	history1           0           0           0           0           1           26           3           8           0           20054           history1           <1           1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	Imit/base       0       90       0       100       0       20       20	<1 current 0 0 <1 <1 36 2 10 14 21427 current 2 4 2	history1         0         0         0         0         0         1         26         3         8         0         20054         history1         <1         1         0	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	Imit/base       0       90       0       100       0       23500       Imit/base       >25       >20       >20       >0.05	<1 current 0 0 <1 <1 36 2 10 14 21427 current 2 4 2 4 2 3.704	history1         0         0         0         0         1         26         3         8         0         20054         history1         <1         1         0         <12         1         0         0         0.129	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m           ASTM D6304	limit/base 0 90 0 1 0 0 0 0 0 0 2 3 5 0 0 2 3 5 0 0 2 3 5 0 0 2 3 0 0 2 3 5 0 0 2 0 0 2 3 5 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 current 0 0 <1 <1 36 2 10 14 21427 current 2 4 2 4 2 4 2 4 3.704 37040	history1         0         0         0         0         1         26         3         8         0         20054         history1         <1         1         0         <121         1         0         ▲ 0.129         ▲ 1290	history2   <
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m           ASTM D5185m	imit/base       0       90       0       100       0       23500       imit/base       >20       >20       >20       >500	<t current 0 0 &lt;1 &lt;1 36 2 10 14 21427 current 2 4 2 4 2 3.704 Current</t 	0         0         0         0         1         26         3         8         0         20054         history1         <1         1         0         <11         1         0         ▲ 0.129         ▲ 1290	history2 history2



# **OIL ANALYSIS REPORT**









To discuss this sample report, contact Customer Service at 1-800-237-1369.

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\* - 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)

Certificate 12367

Laboratory

Sample No.

Contact/Location: PURCHASING ? - SUPEAS

T:

F: