

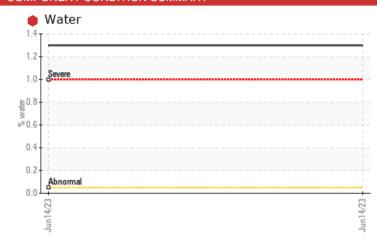
PROBLEM SUMMARY

WATER

KAESER 8074426

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 % Water ASTM D6304 >0.05 1.30 ppm Water ASTM D6304 >500 13000 ppm scalar *Visual NONE Silt MODER Appearance scalar *Visual NORML MILKY >0.05 **Emulsified Water** scalar *Visual **0.2%** Free Water scalar *Visual >10%

Customer Id: RATGOO Sample No.: KCPA002260 Lab Number: 05881538 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



OIL ANALYSIS REPORT

Machine Id KAESER 8074426 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

Appearance is milky. 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

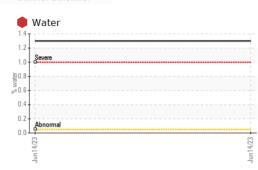
The AN level is acceptable for this fluid.

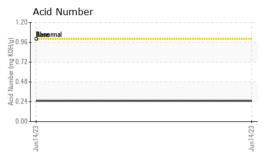
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		KCPA002260		
Sample Date		Client Info		14 Jun 2023		
Machine Age	hrs	Client Info		13		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	1		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history 1	history 2
	ppm ppm					
Boron		ASTM D5185m	0	0		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0 90	0 12		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 90	0 12 0		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0	0 12 0 1		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100	0 12 0 1 19		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0	0 12 0 1 19 2	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0 0	0 12 0 1 19 2 6	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100 0 0 0	0 12 0 1 19 2 6 16	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	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	0 90 0 100 0 0 0 23500	0 12 0 1 19 2 6 16 24536		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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	0 90 0 100 0 0 23500	0 12 0 1 19 2 6 16 24536 current	 history 1	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 90 0 100 0 0 23500	0 12 0 1 19 2 6 16 24536 24536 current 2	 history 1	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25	0 12 0 1 19 2 6 6 16 24536 24536 current 2 2 2	 history 1	 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25	0 12 0 1 19 2 6 16 24536 current 2 2 2 2 3	 history 1	 history 2
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 ASTM D5185m	0 90 0 100 0 0 23500 23500 23500 23500 23500 225 >20 >20 >0.05	0 12 0 1 19 2 6 16 24536 current 2 2 2 3 3 1 .30	 history 1 	 history 2



OIL ANALYSIS REPORT

VISUAL







istory 2	histo	history 1	current	se	limit/b	method		VISUAL	- 1			
			NONE		NONE	*Visual	scalar	Vhite Metal				
			NONE		NONE	*Visual	scalar	ellow Metal				
			NONE		NONE	*Visual	scalar	Precipitate				
			MODER	-	NONE	*Visual	scalar	Silt				
			NONE		NONE	*Visual	scalar	Debris				
			NONE		NONE	*Visual	scalar	Sand/Dirt	_			
			MILKY	-	NORM	*Visual	scalar	Appearance	1/F c	Jun 14/23		
			NORML		NORM	*Visual	scalar	Ddor		Jun		
			0.2%		>0.05	*Visual	scalar	Emulsified Water				
			>10%			*Visual	scalar	Free Water	-			
istory 2	hiete	history 1	current	20	limit/b	method		FLUID PROPER	-			
5101 y 2	msic	Thistory I		30								
			43.7		45	ASTM D445	cSt	/isc @ 40°C				
istory 2	histo	history 1	current	se	limit/b	method	S	SAMPLE IMAGE				
image	no ima	no image						Color		Jun 14/23 +		
image	no ima	no image						Bottom	-			
							als	copper lead	10 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10			
					Jun14/23			Jun 14/23				
			Acid Number	1 20				Viscosity @ 40°C	60			
			Base rmal	1.20 0.96 0.72 0.48 0.24				Severe	55			
				0.72				Abnormal	0° 50			
				0.48				Base	(D=0 1) 150 150			
				0.24				Abnormal	40			
			1 					Severe	35			
CC/ 111			77/41 Un C	00.85	Jun14/23			Jun 14/23				
ICTION REST DI ILLE, TI S 3707	AK FORES ETTSVILL US	GOODLE		513		ed : 22 - ed : 30 - ician : Jon	Received Diagnos Diagnost	WearCheck USA - KCPA002260 <mark>05881538</mark> 10526641	: : er :	Laboratory Sample No. Lab Number Unique Number		
Manage	ervice Ma	Contact: S			2			ND 2 (Additional		Test Package	icate L2367	
R /	AK FOF ETTSV U	154 OA GOODLE		513	ry, NC 2 Jun 2023 Jun 2023 athan He 9.	l : 22 ; ed : 30 ; ician : Jon PrtCount) <i>00-237-136</i>	Received Diagnose Diagnose Tests: KF, vice at 1-8	WearCheck USA - KCPA002260 <mark>05881538</mark> 10526641	: er: e: ; cor	Sample No. Lab Number Unique Number Test Package sample report,	iscuss this	To disc

* - 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)