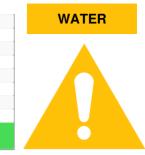


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

### 8725698 (S/N 1399) Component Compressor

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

#### DIAGNOSIS

#### A Recommendation

Oil and 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 recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

#### Fluid Condition

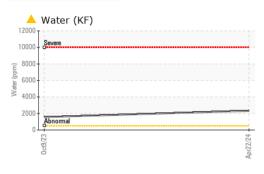
The AN level is acceptable for this fluid.

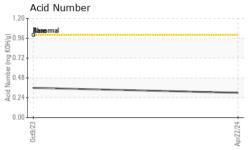
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016340	KCPA007805	
Sample Date		Client Info		22 Apr 2024	09 Oct 2023	
Machine Age	hrs	Client Info		5336	2264	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	12	5	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2
	ppm ppm					
Boron		ASTM D5185m	0	0	0	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0 90	0 <1	0 12	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 90	0 <1 0	0 12 0	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0	0 <1 0 0	0 12 0 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 90 0 100	0 <1 0 0 0	0 12 0 0 27	
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 <1 0 0 0 <1	0 12 0 0 27 0	  
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	0 90 0 100 0 0	0 <1 0 0 0 <1 <1	0 12 0 0 27 0 3	   
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 <1 0 0 0 <1 <1 <1 0	0 12 0 0 27 0 3 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	0 90 0 100 0 0 0 23500	0 <1 0 0 <1 <1 0 18772	0 12 0 27 0 3 16 18249 history1 <1	     
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	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 limit/base	0 <1 0 0 0 <1 <1 0 18772 current	0 12 0 27 0 3 16 18249 history1	     history2
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 <b>method</b>	0 90 0 100 0 0 23500 limit/base	0 <1 0 0 <1 <1 <1 0 18772 current 3	0 12 0 27 0 3 16 18249 history1 <1	     history2
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 ASTM D5185m ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25	0 <1 0 0 <1 <1 <1 0 18772 current 3 <1	0 12 0 27 0 3 16 18249 history1 <1 9	     history2
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 ASTM D5185m	0 90 0 100 0 0 23500 limit/base >25	0 <1 0 0 <1 <1 <1 0 18772 current 3 <1 0	0 12 0 27 0 3 16 18249 history1 <1 9 4	     history2
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 limit/base >25 >20 >20	0 <1 0 0 0 <1 <1 <1 0 18772 current 3 <1 0 0 0 233	0 12 0 27 0 3 16 18249 history1 <1 9 4 ▲ 0.157	     history2

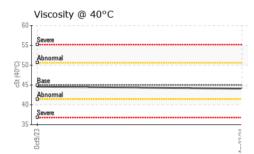


# **OIL ANALYSIS REPORT**

VISUAL







	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE		🔺 MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	<b>6.2%</b>	▲ 0.2%	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	IES	method	limit/base	current	history1	history
	Visc @ 40°C	cSt	ASTM D445	45	44.1	44.6	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history
	Color						no image
	Bottom						no image
bpm	6 - nickel						
mqq	Non-ferrous Metal	s		Apr22/24			
	Non-ferrous Metal	s					
	Non-ferrous Metal	S		Apr2224			
bpm	Non-ferrous Metal	S		Apr2224	Acid Number	r	
bpm	Non-ferrous Metal	S		Apr2224		r	
bpm	Non-ferrous Metal	s		Apr2224		r	
ppm	Non-ferrous Metal	s		Apr2224		r	
cSt (40°C) ppm	Non-ferrous Metal	S		Apr2224		r	
cSt (40°C)	Non-ferrous Metal	S		Acid Number (mg KOH(g) 7.0 % (mg KOH(g) 7.0 % (mg KOH(g)	20 4 4 4 4 4 4 4 4 4 4 4 4 4	r	
cSt (40°C)	Non-ferrous Metal	S		Acid Number (mg KOH(g) 7.0 % (mg KOH(g) 7.0 % (mg KOH(g)	20 <b>Base</b> mal <b>Base</b> mal 12 18 18 24	r	
	Non-ferrous Metal	1 Madiso Recei Teste	ived : 25 d : 29	4272721dy 4272721dy 4272721dy 4272721dy 4272721dy 42727213 5 Apr 2024 9 Apr 2024	20 <b>Basemal</b> 72 18 24 24 24 24 24 24 24 27 28 27 28 29 20 20 20 20 20 20 20 20 20 20	 3660 N L	ALLUXA I AUGHLIN TA ROSA, US 954
	Non-ferrous Metal	1 Madiso Recei Teste Diagr	ived : 25 d : 29 nosed : 29	427272104 427272104	20 <b>Basemal</b> 72 18 24 24 24 24 24 24 24 27 28 27 28 29 20 20 20 20 20 20 20 20 20 20	 3660 N L	AUGHLIN TA ROSA, US 95

limit/base

current

method

history1

history2

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.

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

Certificate L2367

Contact/Location: MARK PRIEST - ALLSANCAL

T:

F: