

### **OIL ANALYSIS REPORT**



Machine Id

# 3479645 (S/N 1430)

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

#### DIAGNOSIS

#### 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

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

#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018749	KCPA006592	
Sample Date		Client Info		18 Jun 2024	18 Aug 2023	
Machine Age	hrs	Client Info		8860	4847	
Oil Age	hrs	Client Info		428	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	<1	4	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
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	4	12	
Tin	ppm	ASTM D5185m	>10	0	<1	
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	<mark>history1</mark> <1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 0 90	current 0 <1	history1 <1 76	history2 
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0	current 0 <1 0	history1 <1 76 0	history2  
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0	current 0 <1 0 0	history1 <1 76 0 <1	history2   
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base 0 90 0 100	current 0 <1 0 0 <1	history1 <1 76 0 <1 9	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base 0 90 0 100 0	current           0           <1           0           <1           0           <1           0           <1           0           <1	history1 <1 76 0 <1 9 8	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 100 0 0	current           0           <1           0           <1           0           <1           0           <1           0           <1           0           <1           0           <1	history1 <1 76 0 <1 9 8 19	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base 0 90 0 0 100 0 0 0	current           0           <1           0           <1           0           <1           0           <1           0           <1           0           <1           0           0           0           0           0           0           0           0           0	history1 <1 76 0 <1 9 8 19 28	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base 0 90 0 100 0 0 0 23500	current           0           <1           0           <1           0           <1           0           <1           0           <1           0           <1           0           0           15697	history1 <1 76 0 <1 9 8 19 28 3259	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 90 0 100 100 0 0 23500 limit/base	current         0         <1         0         <1         0         <1         0         <1         0         15697         current	history1 <1 76 0 <1 9 8 19 28 3259 history1	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 0 90 0 100 0 0 0 23500 limit/base >25	current           0           <1           0           <1           0           <1           0           <1           0           <1           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           15697           current	history1 <1 76 0 <1 9 8 19 28 3259 history1 2	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base 0 90 0 100 0 0 0 23500 limit/base >25	current         0         <1         0         <1         0         <1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         15697         current         <1 <t1< td="">         17</t1<>	history1 <1 76 0 <1 9 8 19 28 3259 history1 2 47	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base 0 90 0 100 0 0 23500 limit/base >25 >20	current         0         <1         0         <1         0         <1         0         0         15697         current         <1         17         2	kistory1         <1         76         0         <1         9         8         19         28         3259         history1         2         47         7	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	method           ASTM D5185m	limit/base 0 90 0 100 0 0 0 23500 limit/base >25 >20 >0.05	current         0         <1         0         <1         0         <1         0         0         15697         current         <1         17         2         ▲ 0.094	history1 <1 76 0 <1 9 8 19 28 3259 history1 2 47 7 ▲ 0.469	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m           ASTM D6304           ASTM D6304	limit/base 90 100 100 0 0 23500 limit/base >25 >20 >0.05 >500	current         0         <1         0         <1         0         <1         0         01         01         01         01         01         01         01         02         03         040	<1         76         0         <1         9         8         19         28         3259         history1         2         47         7         0.469         4693.6	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	method           ASTM D5185m           ASTM D5185m	limit/base 0 90 100 100 0 23500 limit/base >20 >0.05 >500	current         0         <1         0         <1         0         <1         0         0         15697         current         <1         17         2         ▲ 0.094         ●40	<1         76         0         <1         9         8         19         28         3259         history1         2         47         7         0.469         4693.6         history1	history2 <tr tr=""></tr>



## **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	
Debris	scalar	*Visual	NONE	NONE	A HEAVY	
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	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
		mothod	limit/baco	ourront	history	history2
			45			TIIStOF y2
	051	ASTIVI D445	40	41.4	44.0	
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
Non-ferrous Metals	S		Jun18,24			
Viscosity @ 40°C			Jun18/24	Acid Numbe	r	
: WearCheck USA - 501 : KCPA018749	1 Madison Beceiv	Ave., Cary	/, NC 27513	16	<b>REICHERT CO</b>	

limit/base

current

method

historv1

history2

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) Certificate L2367 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)

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Contact/Location: Service Manager - REICARTX Page 2 of 2