

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id KAESER AIRCENTER 7.5C 8270493 (S/N 1071)

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

# DIAGNOSIS

### Recommendation

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

## Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris 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	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP015968		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		764		
Oil Age	hrs	Client Info		764		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	18		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
	ppm ppm				,	
Boron		ASTM D5185m		0		
Boron Barium	ppm	ASTM D5185m ASTM D5185m		0 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90 90	0 0 0 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90 90	0 0 0 0 3		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90 90	0 0 0 3 3	  	
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	90 90	0 0 0 3 3 2	   	
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	90 90	0 0 0 3 3 2 3	    	   
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	90 90 2	0 0 0 3 3 2 3 2 3 21952		
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	90 90 2 limit/base	0 0 0 3 3 2 2 3 21952 current	      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> ASTM D5185m	90 90 2 limit/base	0 0 0 3 3 2 2 3 21952 current <1 1 2	     history1	     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 <b>method</b> ASTM D5185m ASTM D5185m	90 90 2 limit/base >25	0 0 0 3 3 2 2 3 21952 current <1 1	history1	      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	90 2 limit/base >25 >20	0 0 0 3 3 2 2 3 21952 current <1 1 2	     history1	     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	90 2 2 limit/base >25 >20 >20 >0.05	0 0 0 3 3 2 3 21952 current <1 1 2 2 0.006	history1	     history2



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2000

12000

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# **OIL ANALYSIS REPORT**

current

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NONE

NONE

NONE

MODER

NONE

NORML

NORML NEG

current

current

Acid Number

Mar26/24

NEG

43.9

history1

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history1

history1

no image

no image

history2

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history2

history2

no image

no image

for a metime.					
Vater (KF)	VISUAL		method	limit/bas	e
ivere	White Metal	scalar	*Visual	NONE	
	Yellow Metal	scalar	*Visual	NONE	
	Precipitate	scalar	*Visual	NONE	
	Silt	scalar	*Visual	NONE	
	Debris	scalar	*Visual	NONE	
*****	Sand/Dirt	scalar	*Visual	NONE	
	Appearance Odor	scalar	*Visual	NORML	
	Odor	scalar	*Visual	NORML	
	Emulsified Water	scalar	*Visual	>0.05	
	Free Water	scalar	*Visual		
	FLUID PROPER	TIES	method	limit/bas	se
	Visc @ 40°C	cSt	ASTM D445	46	
	SAMPLE IMAGE	S	method	limit/bas	se
	Paral Para Para				
	Mari				
					1
	Bottom				
	GRAPHS				
	Ferrous Alloys				
	8 - iron				
	2				
	0 24 25			1/24	
	Mar26/24			Mar26/24	
	Non-ferrous Meta	ls			
	copper				
	15 - Internet lead				
	톱 10-				
	5-				
	0			24	
	Mar26/24			Mar26/24	
	≥ Viscosity @ 40°C			W	
	55 T				0.50 T
	50 - Abnormal			KOH/g	0.40
	Base 00 45 XS Abnormal			Bu) J	0.30 -
	40 + Abnormal			umber	0.20
				keid Ni	0.10
	35 <del>4</del>				0.00
	Mar26/24			Mar26/24	
	2			2	

**GERLACH CONSTRUCTION INC** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP015968 Sample No. Received : 02 Apr 2024 3909 HALIFAX ST Lab Number : 06136395 Tested : 04 Apr 2024 DALLAS, TX Unique Number : 10955860 Diagnosed : 04 Apr 2024 - Don Baldridge US 75247 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Service Manager Certificate 12367 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: Service Manager - GERDAL

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