

Sample Rating Trend



KAESER A/C SM 10 9153541 (S/N 2418)

Component 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		KCPA013942		
Sample Date		Client Info		14 Mar 2024		
Machine Age	hrs	Client Info		1260		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
	ppm ppm		limit/base 90			
Boron		ASTM D5185m		0		
Boron Barium	ppm	ASTM D5185m ASTM D5185m		0 26		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 26 0		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90	0 26 0 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	90 90	0 26 0 0 65		
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 26 0 0 65 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	90 90	0 26 0 0 65 0 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 26 0 0 65 0 2 8	 	
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 26 0 65 0 2 8 21997		
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 26 0 65 0 2 2 8 21997 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 method	90 90 2 limit/base	0 26 0 65 0 2 2 8 21997 current <1	 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 ASTM D5185m ASTM D5185m	90 90 2 limit/base >25	0 26 0 65 2 2 8 21997 current <1 14	 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 90 2 limit/base >25 >20	0 26 0 65 0 2 8 21997 current <1 14	 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 90 2 2 <u>limit/base</u> >25 >20 >0.05	0 26 0 0 65 0 2 8 21997 current <1 14 11 0.028	 history1	 history2



6000 Nater

6000 Water 4000

OIL ANALYSIS REPORT

limit/base

limit/base

limit/base

current

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

current

current

NEG

NEG

43.7

history1

history

history1

no image

no image

history2

history2

history2

no image

no image

Bui	It for a lifetime."				
12000 -	Water (KF)	VISUAL		method	limit/bas
10000-	Severe	White Metal	scalar	*Visual	NONE
8000		Yellow Metal	scalar	*Visual	NONE
6000		Precipitate	scalar	*Visual	NONE
4000		Silt	scalar	*Visual	NONE
2000-		Debris	scalar	*Visual	NONE
0	Abnormal	Sand/Dirt	scalar	*Visual	NONE
0	Mar14/24 Mar14/24	Appearance	scalar	*Visual	NORML
	Mar14,24	Odor	scalar	*Visual	NORML
	Water (KE)	Emulsified Water	scalar	*Visual	>0.05
12000 T	Water (KF)	Free Water	scalar	*Visual	
10000	Severe				11 11 /
- 8000		FLUID PROPERT	IES	method	limit/bas
6000-		Visc @ 40°C	cSt	ASTM D445	46
4000		SAMPLE IMAGES	6	method	limit/bas
2000-	Abnormal				
01		Color			
	Mar14/24 Mar14/24				
	Viscosity @ 40%				
52 T	Viscosity @ 40°C				
50-	Abnormal	Bottom			
48 -					
(J-046 (J-040- tS-040-	Base	GRAPHS			
		Ferrous Alloys			
42 - 40 -	Abnormal	¹⁰ I			
38		8 - iron			
	Mar14,24	E 6- nickel			
	Mar				
		2			
		24 27			424
		Mar14/24			Mar14/24
		– Non-ferrous Metal	s		-
		¹⁰ T			
		8 - copper lead			
		2			
		, Mar14,/24			4/24 .
		Mar1			Mar14/24
		Viscosity @ 40°C			
		55 50			(B/H(
		Base			id Number (mg KOH/g)
		G H H H H H H H H H H H H H			mber
		40 -			Nu Nu

35

Mar14/24

Mar14/24 Acid Number €^{0.50} 동 0.40 Ē 0.30 ੂੰ 0.20 Acid Nu 0.10 0.00 Mar14/24 -Mar14/24 Marl

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **PROFILE CABINET** Sample No. : KCPA013942 Received : 03 Jun 2024 7400 E 12TH ST Lab Number : 06198202 Tested : 05 Jun 2024 KANSAS CITY, MO Unique Number : 11060325 Diagnosed : 05 Jun 2024 - Don Baldridge US 64126 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: BOB Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bob@eproinc.com * - 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:

Report Id: PROKANMO [WUSCAR] 06198202 (Generated: 06/05/2024 13:21:29) Rev: 1

Contact/Location: BOB ? - PROKANMO