

OIL ANALYSIS REPORT

Sample Rating Trend ISO

KAESER 5392584 Component

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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 Date Image Client Info 18 Dec 2023 06 Jun 2023 28 Oct 2022 Machine Age hrs Client Info 0 0 2500 Oil Age hrs Client Info N/A N/A Changed Sample Status Image Image N/A N/A ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 0 0 Iron ppm ASTM D5185m >50 0 <1 0 0 Nickel ppm ASTM D5185m >33 0 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 0	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 19680 18720 17586 Oil Age hrs Client Info 0 0 2500 Oil Changed Client Info N/A N/A Changed Sample Status Image Image N/A ABNORMAL ABNORMAL <td< th=""><th>Sample Number</th><td></td><td>Client Info</td><td></td><th>KCPA010985</th><td>KCPA0039851</td><td>KCP47201D</td></td<>	Sample Number		Client Info		KCPA010985	KCPA0039851	KCP47201D	
Oil Age hrs Client Info 0 0 2500 Oil Changed Client Info N/A N/A Changed Sample Status Method Imit/base current history1 ABNORMAL WEAR METALS method Imit/base current history2 0 Chromium ppm ASTM 05185m >50 0 <1 0 Chromium ppm ASTM 05185m >50 0 0 0 Nickel ppm ASTM 05185m >10 0 0 0 Silver ppm ASTM 05185m >10 0 0 0 Additionum ppm ASTM 05185m >10 0 0 0 Cadmium ppm ASTM 05185m >10 0 0 0 Additium ppm ASTM 05185m 0 0 0 0 Cadmium ppm ASTM 05185m 0 0 0 0	Sample Date		Client Info		18 Dec 2023	06 Jun 2023	28 Oct 2022	
Oli Changed Client Info N/A N/A N/A Changed Sample Status Imaged Client Info ABNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTMD5185n >50 0 <1 0 Chromium ppm ASTMD5185n >33 0 0 0 Nickel ppm ASTMD5185n >33 0 0 0 Silver ppm ASTMD5185n >10 0 0 0 Lead ppm ASTMD5185n >10 0 0 0 Cadmium ppm ASTMD5185n >10 0 0 0 Cadmium ppm ASTMD5185n 0 0 0 0 Cadmium ppm ASTMD5185n 0 0 0 0 Boron ppm ASTMD5185n 0 0 0 0 Magnesium ppm ASTMD5185n 0 0 0 0 Magnesium ppm ASTMD5185n 0 0 0 0 Magnesium ppm ASTMD5185n </th <th>Machine Age</th> <td>hrs</td> <td>Client Info</td> <td></td> <th>19680</th> <td>18720</td> <td colspan="2"></td>	Machine Age	hrs	Client Info		19680	18720		
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Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	90	0	0	0	
Magnesium ppm ASTM D5185m 100 2 28 2 Calcium ppm ASTM D5185m 0 0 0 2 Phosphorus ppm ASTM D5185m 0 95 59 29 Sulfur ppm ASTM D5185m 0 95 59 29 Sulfur ppm ASTM D5185m 23500 16093 22817 19550 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0	
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Phosphorus ppm ASTM D5185m 0 0 5 5 Zinc ppm ASTM D5185m 0 95 59 29 Sulfur ppm ASTM D5185m 23500 16093 22817 19550 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m >20 0 1 <1 Vater % ASTM D5185m >20 0 1 <1 Water % ASTM D5044 >0.05 0.007 0.018 0.005 ppm Water ppm ASTM D7647 19267 11825 Particles >4µm ASTM D7647 >1300 10903 2833 Particles >14µm ASTM D7647 20 & 853	Magnesium	ppm	ASTM D5185m	100	2	28	2	
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Sulfur ppm ASTM D5185m 23500 16093 22817 19550 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1	Phosphorus	ppm	ASTM D5185m	0	0	5	5	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m >20 0 1 <1 Sodium ppm ASTM D5185m >20 0 1 <1 Water % ASTM D50304 >0.05 0.007 0.018 0.005 ppm Water ppm ASTM D6304 >500 70 189.3 57.4 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 19267 11825 Particles >6µm ASTM D7647 >1300 10903 4 2833 Particles >14µm ASTM D7647 >80 2550 4 140 Particles >21µm ASTM D7647 >20 & 853 2 Particles >38µm ASTM D7647 2	Zinc	ppm	ASTM D5185m	0	95	59	29	
Silicon ppm ASTM D5185m >25 0 0 <1	Sulfur	ppm	ASTM D5185m	23500	16093	22817	19550	
Sodium ppm ASTM D5185m 4 8 0 Potassium ppm ASTM D5185m<>20 0 1 <1 Water % ASTM D5185m<>20 0.007 0.018 0.005 ppm Water ppm ASTM D6304 >500 70 189.3 57.4 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 19267 11825 Particles >6µm ASTM D7647 >1300 10903 4 2833 Particles >14µm ASTM D7647 >80 2550 140 Particles >21µm ASTM D7647 >20 & 853 36 Particles >38µm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/21/19 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 0 1 <1	Silicon	ppm	ASTM D5185m	>25	0	0	<1	
Water % ASTM D6304 >0.05 0.007 0.018 0.005 ppm Water ppm ASTM D6304 >500 70 189.3 57.4 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 19267 11825 Particles >6µm ASTM D7647 >1300 10903 4 2833 Particles >14µm ASTM D7647 >20 853 4 36 Particles >21µm ASTM D7647 >20 853 2 36 Particles >38µm ASTM D7647 3 2 0 36 Particles >71µm ASTM D7647 3 2 0 21/21/19 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		4	8	0	
ppm Water ppm ASTM D6304 >500 70 189.3 57.4 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 19267 11825 Particles >6µm ASTM D7647 >1300 10903 4 2833 Particles >14µm ASTM D7647 >80 2550 4 140 Particles >21µm ASTM D7647 >20 853 2 36 Particles >38µm ASTM D7647 >4 49 2 2 Particles >71µm ASTM D7647 3 2 0 2 Oil Cleanliness ISO 4406 (c) >/17/13 21/21/19 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0	1	<1	
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 19267 11825 Particles >6µm ASTM D7647 >1300 10903 2833 Particles >14µm ASTM D7647 >80 2550 ▲ 140 Particles >21µm ASTM D7647 >20 ▲ 853 ▲ 36 Particles >38µm ASTM D7647 >4 ▲ 49 2 Particles >71µm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/21/19 ▲ 21/19/14	Water	%	ASTM D6304	>0.05	0.007	0.018	0.005	
Particles >4μm ASTM D7647 19267 11825 Particles >6μm ASTM D7647 >1300 10903 2833 Particles >14μm ASTM D7647 >80 2550 ▲ 140 Particles >21μm ASTM D7647 >20 ▲ 853 ▲ 36 Particles >38μm ASTM D7647 >4 ▲ 49 2 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/21/19 ▲ 21/19/14	ppm Water	ppm	ASTM D6304	>500	70	189.3	57.4	
Particles >6µm ASTM D7647 >1300 ▲ 10903 ▲ 2833 Particles >14µm ASTM D7647 >80 ▲ 2550 ▲ 140 Particles >21µm ASTM D7647 >20 ▲ 853 ▲ 36 Particles >38µm ASTM D7647 >4 ▲ 49 2 Particles >71µm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/21/19 ▲ 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
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Particles >21µm ASTM D7647 >20 ▲ 853 ▲ 36 Particles >38µm ASTM D7647 >4 ▲ 49 2 Particles >71µm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/21/19 ▲ 21/19/14 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>1300			<u> </u>	
Particles >38μm ASTM D7647 >4 ▲ 49 2 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/21/19 ▲ 21/19/14 FLUID DEGRADATION method limit/base current history1 history2								
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Oil Cleanliness ISO 4406 (c) >/17/13 21/21/19 21/19/14 FLUID DEGRADATION method limit/base current history1 history2	•							
FLUID DEGRADATION method limit/base current history1 history2	-		ASTM D7647	>3	2			
	Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/21/19		a 21/19/14	
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.38 0.39 0.41	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	

Contact/Location: W GUERARA - AMEACW



/1 ml)

number of particles (

12000

1000

800 (maa)

600 Water 4000

(B/H0.9 E0.72 Ê 0.4 Pice 0.2

0.00

10000

600 Water (

4000

200

60

() 5(

-₹3 45

40

35

2

Abnorma

Viscosity @ 40°C

Mar31

S 55

Abnormal

Se

muu

Water (KF)

Oct28/22

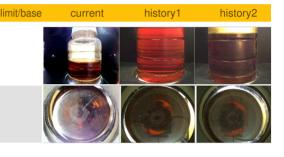
un6/23

in6/23

6/73

OIL ANALYSIS REPORT

article Trend		VISUAL		method	limit/ba
4μm	a minimum minimum minimum minimum minimum mini	White Metal	scalar	*Visual	NONE
nannan 14μm		Yellow Metal	scalar	*Visual	NONE
a statistic	1.11 M 10 M 10 M 10	Precipitate	scalar	*Visual	NONE
		Silt	scalar	*Visual	NONE
14 20 30 30 30 30 30 30 30 30 30 30 30 50		Debris	scalar	*Visual	NONE
		Sand/Dirt	scalar	*Visual	NONE
0ct28/22	Jun6/23 Dec18/23	Appearance	scalar	*Visual	NORM
Octí	Deci	Odor	scalar	*Visual	NORM
Vater (KF)		Emulsified Water	scalar	*Visual	>0.05
		Free Water	scalar	*Visual	
		FLUID PROPER	TIES	method	limit/l
		Visc @ 40°C	cSt	ASTM D445	45
		SAMPLE IMAGE	S	method	limit/k
al					
0ct28/22 -	Jun6/23 -	Color			
lumber					
		Bottom			
		GRAPHS			



history1

NONE

NONE

NONE

NONE

MODER

NONE

NORML

NORML

NEG

NEG

46.2

history

current

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

current

NEG

NEG

46.7

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

46.2

GRAPHS Ferrous Alloys Particle Count 491 520 122,880 30,720 0 7,680 20 8 Dec18/23 un6/23 CC/8C+~1 1406 Mar31 (per 1 1,920 6661 Non-ferrous Metals 480 25 120 20 15 30 10 Ę 0 Dec18/23 Jct28/22 un6/23 Mar31/22 Viscosity @ 40°C Acid Number 60 (B/1.20 HOX 0.96 Se 55 Abnorma () 50 E 0.72 45 -e 0.48 ŝ Abnorm Ja 0.24 40 Sever 0.00 PC 35 Jun6/23 Dec18/23 8/23 Jct28/22 Oct28/22 Mar31 Mar31 AMERICAN DISPOSAL SERVICES INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KCPA010985 Received : 26 Feb 2024 25 NORTH DR ACWORTH, GA :06100160 Lab Number Tested : 27 Feb 2024 : 28 Feb 2024 - Don Baldridge US 30102 Unique Number : 10898390 Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: W GUERARA WGUERARA@ADSIMAIL.COM 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: W GUERARA - AMEACW

T:

F: