

OIL ANALYSIS REPORT



WEAR

Machine Id 6982459 (S/N 1072) Component

Compressor Fluid

KAESER SIGMA (OEM) FG-460 (--- QTS)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

🔺 Wear

The aluminum level is abnormal. All other 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 INFORMATION method Imit/base current History1 History2 Sample Number Client Info 07 Feb 2024 Machine Age hrs Client Info 34387 Oil Age hrs Client Info 34387 Oil Changed hrs Client Info N/A Sample Status Client Info N/A WEAR METALS method Imit/base current History1 Nistory2 Iron ppm ASTM D51650 >50 10 Nickel ppm ASTM D51650 >30 0 Silver ppm ASTM D51650 >10 0 Qaminum ppm ASTM D51650 >10 0 Qaminum ppm ASTM D51650 0					Feb2024		
Sample Date Client Info 07 Feb 2024 Machine Age hrs Client Info 34387 Oil Age hrs Client Info 0 Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >50 10 Nickel ppm ASTM 05185m >3 0 Silver ppm ASTM 05185m >10 0 Cadmium ppm ASTM 05185m >10 0 Adminum ppm ASTM 05185m >10 0 Adamium ppm ASTM 05185m 0 Adamium ppm ASTM 05185m 0 Adamium ppm ASTM 0	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 34387 Oil Aga hrs Client Info N/A Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05165m >50 10 Nickel ppm ASTM 05165m >30 0 Silver ppm ASTM 05165m >30 0 Copper ppm ASTM 05165m >10 0 ACadmium ppm ASTM 05165m >10 0 ADDITIVES method Imit/base current history1 history2 Barium ppm ASTM 05165m 0 ADDITIVES method Imit/base current history1 history2 Bariu	Sample Number		Client Info		KCPA010204		
Oil Age Inrs Client Info 0 Oil Changed Client Info N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 10 Chromium ppm ASTM D5185m >3 0 Nickel ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >10 0 Aduminum ppm ASTM D5185m 0 Adminum ppm ASTM D5185m 0	Sample Date		Client Info		07 Feb 2024		
Oil Changed Client Info N/A Sample Status Image Status	Machine Age	hrs	Client Info		34387		
Oil Changed Client Info N/A Sample Status Image Status	Oil Age	hrs	Client Info		0		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5165m >50 10 Nickel ppm ASTM D5165m >30 0 Nickel ppm ASTM D5165m >32 0 Silver ppm ASTM D5165m >10 0 Lead ppm ASTM D5165m >10 0 ASTM D5165m >50 <1	Oil Changed		Client Info		N/A		
Iron ppm ASTM D5185m >50 10 Nickel ppm ASTM D5185m >30 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 <1	Sample Status				ABNORMAL		
Dromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
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Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 A 32 Aluminum ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Tin ppm ASTM D5185m 10 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 1518 Solifur <td>Nickel</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>3</td> <td>0</td> <td></td> <td></td>	Nickel	ppm	ASTM D5185m	>3	0		
Aluminum ppm ASTM D5185m >10 ▲ 32 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 <1	Titanium	ppm	ASTM D5185m	>3	0		
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Copper ppm ASTM D5185m >50 <1 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 377 Sulfur ppm ASTM D5185m 500 377 Sulfur ppm ASTM D5185m 500 377 Sulfur ppm ASTM D5185m >20 0	Aluminum	ppm	ASTM D5185m	>10	<u> </u>		
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Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 377 Calcium ppm ASTM D5185m 500 377 Calcium ppm ASTM D5185m 500 377 Zinc ppm ASTM D5185m 500 377 Sulfur ppm ASTM D5185m 287 Solicon ppm ASTM D5185m 1518 Solicon ppm ASTM D5185m >20 0 Solicon ppm ASTM D5185m >20 0 Solicon ppm ASTM D5185m >20 0 Potassium	Boron	ppm	ASTM D5185m		0		
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Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 500 377 Phosphorus ppm ASTM D5185m 500 377 Zinc ppm ASTM D5185m 500 377 Sulfur ppm ASTM D5185m 287 Sulfur ppm ASTM D5185m 287 Sulfur ppm ASTM D5185m 287 Sulfur ppm ASTM D5185m 255 0 Sodium ppm ASTM D5185m >25 0 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.0055 Particles >4µm ASTM D7647 11431 <tr< td=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td></td><td></td></tr<>	Molybdenum	ppm	ASTM D5185m		0		
Calcium ppm ASTM D5185m 1 Phosphorus ppm ASTM D5185m 500 377 Zinc ppm ASTM D5185m 287 Sulfur ppm ASTM D5185m 1518 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.005 ppm Water ppm ASTM D7647 11431 Particles >4µm ASTM D7647 >1300 5670 Particles >4µm ASTM D7647 >1300 5670 <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td>0</td> <td></td> <td></td>	Manganese	ppm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 500 377 Zinc ppm ASTM D5185m 287 Sulfur ppm ASTM D5185m 1518 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.005 ppm Water ppm ASTM D7647 11431 Particles >4µm ASTM D7647 >1300 5670 Particles >5µm ASTM D7647 >1300 5670	Magnesium	ppm	ASTM D5185m		0		
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Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 0 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.005 Water ppm ASTM D6304 >500 56 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 11431 Particles >6µm ASTM D7647 >1300 5670 Particles >1µm ASTM D7647 >1300 5670 Particles >1µm ASTM D7647 >20 180 Particles >21µm ASTM D7647 >20 180 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 <td>Sulfur</td> <td></td> <td>ASTM D5185m</td> <td></td> <td>1518</td> <td></td> <td></td>	Sulfur		ASTM D5185m		1518		
Sodium ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.005 ppm Water ppm ASTM D6304 >500 56 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 11431 Particles >6µm ASTM D7647 >1300 5670 Particles >6µm ASTM D7647 >80 731 Particles >14µm ASTM D7647 >20 180 Particles >38µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
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ppm Water ppm ASTM D6304 >500 56 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 11431 Particles >6µm ASTM D7647 >1300 5670 Particles >6µm ASTM D7647 >80 731 Particles >14µm ASTM D7647 >20 180 Particles >21µm ASTM D7647 >4 5 Particles >38µm ASTM D7647 >4 5 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) /17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0		
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Particles >6µm ASTM D7647 >1300 ▲ 5670 Particles >14µm ASTM D7647 >80 ▲ 731 Particles >21µm ASTM D7647 >20 ▲ 180 Particles >38µm ASTM D7647 >4 ▲ 5 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >80 ▲ 731 Particles >21µm ASTM D7647 >20 ▲ 180 Particles >38µm ASTM D7647 >4 ▲ 5 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	•		ASTM D7647				
Particles >21μm ASTM D7647 >20 180 Particles >38μm ASTM D7647 >4 5 Particles >37μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm			>1300	<u> </u>		
Particles >38μm ASTM D7647 >4 5 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	<mark>人</mark> 731		
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	<u> </u>		
Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	<u> </u>		
Oil Cleanliness ISO 4406 (c) >/17/13 21/20/17 FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0		
			ISO 4406 (c)	>/17/13	A 21/20/17		
Acid Number (AN) mg KOH/g ASTM D8045 1.5 0.79	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.79		

COMPRESSOR

Built for a lifetime.

12000

2000

1.40 (B/H01 1.20 0.80 0.80 0.60

. 명 0.40

12000

10000

800 Water (ppm) 600

4000

2000

OIL ANALYSIS REPORT

	 	١	/ISUAL		method	limit/k
4μm 6μm	 	W	nite Metal	scalar	*Visual	NONE
14μm		Ye	llow Metal	scalar	*Visual	NONE
		Pr	ecipitate	scalar	*Visual	NONE
		Sil	t	scalar	*Visual	NONE
		De	bris	scalar	*Visual	NONE
	 	Sa	nd/Dirt	scalar	*Visual	NONE
	Feb7/24	Ap	pearance	scalar	*Visual	NORM
	Ē	00	lor	scalar	*Visual	NORM
luminum (ppm)		Er	nulsified Water	scalar	*Visual	>0.05
		Fr	ee Water	scalar	*Visual	
evere		F	LUID PROPER	RTIES	method	limit/b
	 	Vi	sc @ 40°C	cSt	ASTM D445	46
bnormal		5	SAMPLE IMAGE	ES	method	limit/k
konormai						
	Feb7/24 -	Co	lor			
Vater (KF)						
evere	 	Bo	ttom			
			BRAPHS			
		Г 10 т	errous Alloys			
lbnormal	 	8 -	iron iron			
	Feb7/24	ш 6- dd 4-	nickel			
	_	2-				
Acid Number Base	 	10				Feb7/24
		1	3			Feb7
		r	Ion-ferrous Met	als		inticles
		¹⁰ T				Feb7/24 number of particles (per 1 ml)
		8 -	copper			umbe
		udd 4	tin			
		2				
	1012773	۲,				
	L.	1010	-			Feb7/24
/ater (KF)		1	3			Fet
. ,			iscosity @ 40°C/	2		
	 	55	Abnormal			
evere						
evere		ු 50 -				
ievere		t (40°C)	Base			
ievere		(2.04) (2	Base			
levere			<u>Base</u> Abnormal			
Severe	~					Feb7/24

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)



history1

history2

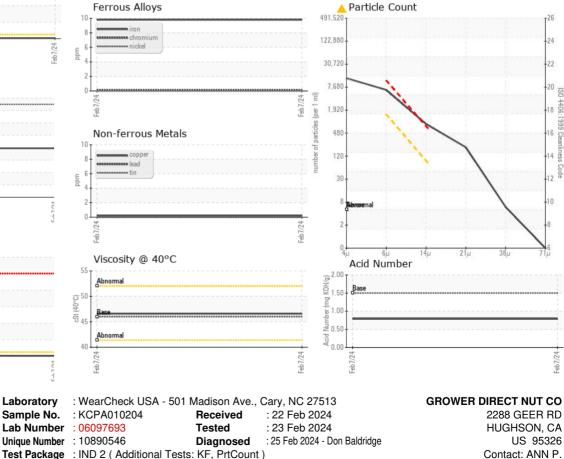
current

NONE

NONE

NONE

NONE NONE



Report Id: GROHUGCA [WUSCAR] 06097693 (Generated: 02/25/2024 10:41:27) Rev: 1

Certificate L2367

Contact/Location: ANN P. - GROHUGCA

Т:

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