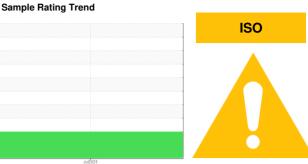


OIL ANALYSIS REPORT



Machine Id 1425

Component Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

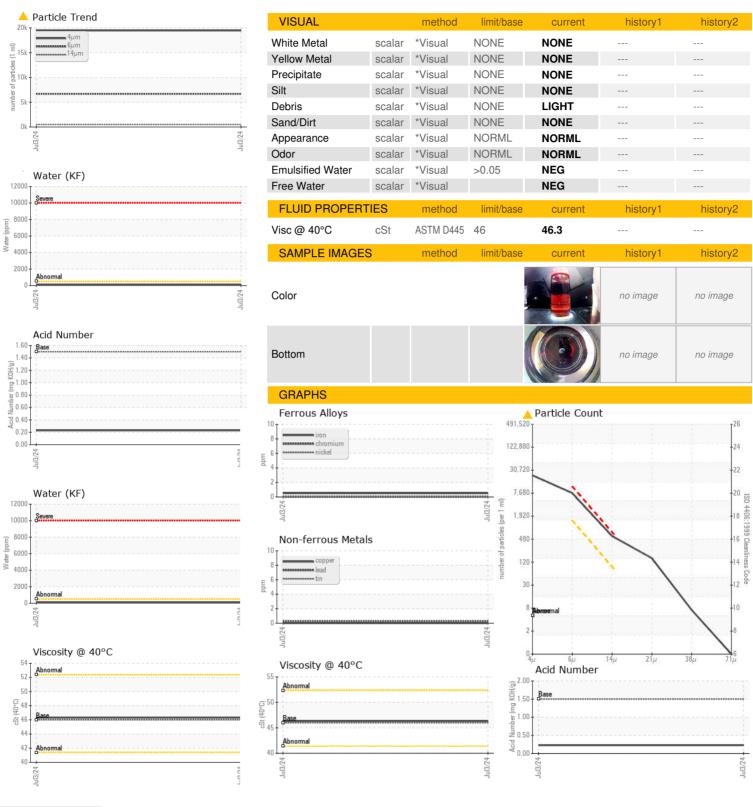
Fluid Condition

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

SAMPLE INFORMATION							
Sample Number Client Info KCPA020564					Jul2024		
Sample Number Client Info KCPA020564	CAMDLE INCODA	IATION	mothod	limit/bass	ourront	hiotonul	hioton/2
Sample Date Client Info 03 Jul 2024 Machine Age hrs Client Info 7403 Oil Age hrs Client Info Changed Oil Changed Client Info Changed Sample Status Both ABNORMAL Iron ppm ASTM D5185m >50 <1 Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 1 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 <1 Vanadium ppm		IATION		IIIIII/base		riistory i	HIStory2
Machine Age hrs Client Info 7403							
Oil Age hrs Client Info Changed Sample Status Client Info Changed WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	·						
Oil Changed Sample Status Client Info Changed ABNORMAL							
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	ŭ	hrs			-		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	-		Client Info		_		
Iron	Sample Status				ABNORMAL		
Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >2 0 Silver ppm ASTM D5185m >10 1 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Tin ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1		
Titanium ppm ASTM D5185m >3 0	Chromium	ppm	ASTM D5185m	>10	0		
Stilver	Nickel	ppm	ASTM D5185m	>3	0		
Aluminum ppm ASTM D5185m >10 1 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m	>3	0		
Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>10	1		
Tin ppm ASTM D5185m	Lead	ppm	ASTM D5185m	>10	0		
Vanadium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Copper	ppm	ASTM D5185m	>50	0		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Sinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m >20 <	Tin	ppm	ASTM D5185m	>10	<1		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Cadmium	ppm	ASTM D5185m		0		
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Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 500 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 Sulfur ppm ASTM D5185m >25 <1	Boron	ppm	ASTM D5185m		0		
Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m >20 1 Sodium ppm ASTM D5185m >20 1 Water % ASTM D5185m >20 1 Water % ASTM D61	Barium	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 500 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 25 <1	Molybdenum		ASTM D5185m		0		
Magnesium ppm ASTM D5185m 0 Calcium ppm ASTM D5185m 500 0 Phosphorus ppm ASTM D5185m 500 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1			ASTM D5185m		0		
Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 500 0 Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Magnesium	ppm	ASTM D5185m		0		
Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 Water % ASTM D6304 >0.05 0.007 Water % ASTM D6304 >500 77 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >1300 6689 Particles >21μm ASTM D7647 >80 506 Particles >38μm ASTM D7647 >4 6	Calcium	ppm	ASTM D5185m		0		
Zinc ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 1973 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 Sodium ppm ASTM D5185m >20 1 Potassium ppm ASTM D5185m >20 1 Water % ASTM D6304 >0.05 0.007 Water % ASTM D6304 >500 77 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >1300 6689 Particles >21μm ASTM D7647 >80 506 Particles >38μm ASTM D7647 >4 6	Phosphorus	ppm	ASTM D5185m	500	0		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1			ASTM D5185m		0		
Silicon ppm ASTM D5185m >25 <1	Sulfur		ASTM D5185m		1973		
Sodium ppm ASTM D5185m <1	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m <1 Potassium ppm ASTM D5185m >20 1 Water % ASTM D6304 >0.05 0.007 ppm Water ppm ASTM D6304 >500 77 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1300 6689 Particles >6μm ASTM D7647 >80 506 Particles >21μm ASTM D7647 >20 134 Particles >38μm ASTM D7647 >4 6 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2 </td <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>25</td> <td><1</td> <td></td> <td></td>	Silicon	ppm	ASTM D5185m	>25	<1		
Water % ASTM D6304 >0.05 0.007 ppm Water ppm ASTM D6304 >500 77 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 19468 Particles >6μm ASTM D7647 >1300 6689 Particles >14μm ASTM D7647 >80 506 Particles >21μm ASTM D7647 >20 134 Particles >38μm ASTM D7647 >4 6 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Sodium		ASTM D5185m		<1		
Water % ASTM D6304 >0.05 0.007 ppm Water ppm ASTM D6304 >500 77 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >1300 6689 Particles >14μm ASTM D7647 >80 506 Particles >21μm ASTM D7647 >20 134 Particles >38μm ASTM D7647 >4 6 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	1		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 19468 Particles >6μm ASTM D7647 >1300 6689 Particles >14μm ASTM D7647 >80 506 Particles >21μm ASTM D7647 >20 134 Particles >38μm ASTM D7647 >4 6 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Water		ASTM D6304	>0.05	0.007		
Particles >4μm	ppm Water	ppm	ASTM D6304	>500	77		
Particles >6μm ASTM D7647 >1300 6689 Particles >14μm ASTM D7647 >80 506 Particles >21μm ASTM D7647 >20 134 Particles >38μm ASTM D7647 >4 6 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Particles >4µm		ASTM D7647		19468		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Particles >6µm		ASTM D7647	>1300	6689		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Particles >14µm		ASTM D7647	>80	_ 506		
Particles >71 μ m ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 \wedge 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	<u> </u>		
Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	<u>^</u> 6		
Oil Cleanliness ISO 4406 (c) >/17/13 21/20/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0		
			ISO 4406 (c)	>/17/13	2 1/20/16		
Acid Number (AN) mg KOH/g ASTM D8045 1.5 0.23	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.23		



OIL ANALYSIS REPORT





Laboratory Sample No.

: KCPA020564 Lab Number : 06234963

Unique Number : 11123797

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 Tested : 15 Jul 2024 Diagnosed

: 15 Jul 2024 - Don Baldridge

SANDWICH, IL US 60548 Contact: Service Manager

MEADOWVALE INC

1305 E 6TH ST

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: Contact/Location: Service Manager - MEASANIL

Report Id: MEASANIL [WUSCAR] 06234963 (Generated: 07/15/2024 16:55:09) Rev: 1

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