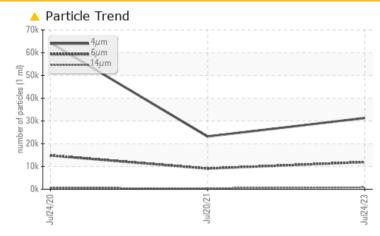




KAESER 2584717

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

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS

THOBEEM, THO T					
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	🔺 11944	<u> </u>	▲ 14842
Particles >14µm	ASTM D7647	>80	<u> </u>	4 37	6 551
Particles >21µm	ASTM D7647	>20	🔺 154	A 31	1 10
Particles >38µm	ASTM D7647	>4	<u> </u>	0	<u> </u>
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> </u>	<u> </u>	1 /16

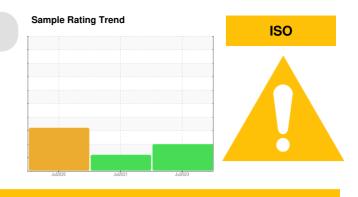
Customer Id: BRICAP Sample No.: KCPA004460 Lab Number: 05938877 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS

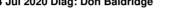
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

20 Jul 2021 Diag: Angela Borella

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.All component wear rates are normal. There is a high amount of particulates present in the oil. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

24 Jul 2020 Diag: Don Baldridge



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.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Machine Id **KAESER 2584717** Component

Compressor Fluid 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

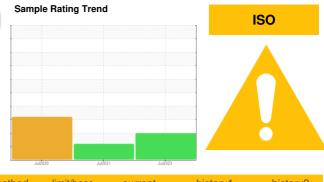
All component wear rates are normal.

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.

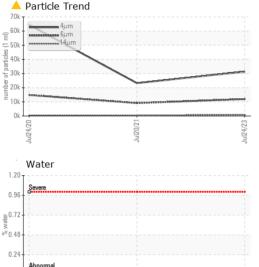


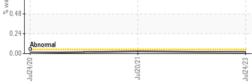
Sample NumberClient InfoKCPA004460KCP41819KCP24631Sample DateClient Info24 Jul 202024 Jul 2020Machine AgehrsClient Info00Oil AgehrsClient Info00Oil AgeClient InfoN/AChangedChangedSample StatusClient InfoN/AChangedABNORMALWEAR METALSmethodImilubasenistoryhistoryIronppmASTM 05185>500<1NickelppmASTM 05185>3000NickelppmASTM 05185>3000SilverppmASTM 05185>1000SilverppmASTM 05185>1000CopperppmASTM 05185>1000AdminumppmASTM 05185>1000VanadiumppmASTM 051851000AdminumppmASTM 051851000AdminumppmASTM 051851000AdminumppmASTM 051851000AdminumppmASTM 051851000AdminumppmASTM 051851001AdminumppmASTM 051851001AdminumppmASTM 051851011AdminumppmASTM 051851011Adminu	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Maganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	90	12	0	0
Manganese ppm ASTM D5185m 0 <1	Molybdenum		ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 100 53 466 <1	,		ASTM D5185m		0	<1	<1
Calcium ppm ASTM D5185m 0 0 1 3 Phosphorus ppm ASTM D5185m 0 <1 9 1 Zinc ppm ASTM D5185m 0 <1 21 25 Sulfur ppm ASTM D5185m 23500 21420 18850 17432 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 24 ▲ 82 Sodium ppm ASTM D5185m >20 <1 2 0 Vater % ASTM D5185m >20 <1 2 0 Water % ASTM D5044 >0.05 0.016 0.027 0.009 ppm Water ppm ASTM D7647 31301 23202 64376 Particles >4µm ASTM D7647 >1300 11944 9090 14842 Particles >54µm ASTM D7647 80 841 437	Magnesium	ppm	ASTM D5185m	100	53	46	<1
Phosphorus ppm ASTM D5185m 0 <1	•		ASTM D5185m	0	0	1	3
Zinc ppm ASTM D5185m 0 <1					<1	9	
Sulfur ppm ASTM D5185m 23500 21420 18850 17432 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	•						25
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 24 ▲ 82 Sodium ppm ASTM D5185m >20 <1 2 0 Potassium ppm ASTM D5185m >20 <1 2 0 Water % ASTM D6304 >0.05 0.016 0.027 0.009 ppm Water ppm ASTM D6304 >500 160.1 273.6 98.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 11944 9090 4.14842 Particles >6µm ASTM D7647 >80 841 437 551 Particles >14µm ASTM D7647 >20 154 31 110 Particles >38µm ASTM D7647 >3 0 0 0 0 Oil Cleanliness ISO 4406 (c) >-/17/13 22/21/17						18850	17432
Silicon ppm ASTM D5185m >25 <1							
Sodium ppm ASTM D5185m 12 9 1 Potassium ppm ASTM D5185m >20 <1 2 0 Water % ASTM D6304 >0.05 0.016 0.027 0.009 ppm Water ppm ASTM D6304 >500 160.1 273.6 98.9 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 31301 23202 64376 Particles >6µm ASTM D7647 >1300 11944 9090 14842 Particles >6µm ASTM D7647 >20 154 31 110 Particles >21µm ASTM D7647 >20 154 31 110 Particles >38µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 22/21/17 20/16 21/16 FLUID DEGRADATION method limit/base current history1 history2 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
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Particles >38μm ASTM D7647 >4 ▲ 5 0 ▲ 6 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 22/21/17 ▲ 20/16 ▲ 21/16 FLUID DEGRADATION method limit/base current history1 history2							
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FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>/17/13	A 22/21/17	2 0/16	1 /16
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.34 0.394 0.369	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.394	0.369

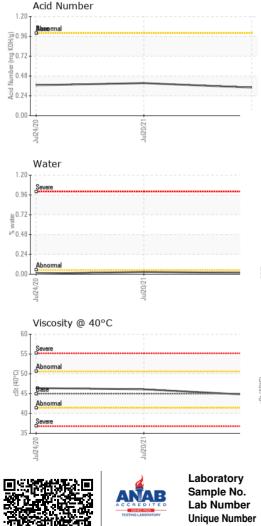
0.34 Contact/Location: Service Manager - BRICAP



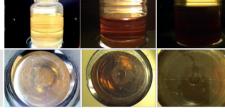
OIL ANALYSIS REPORT



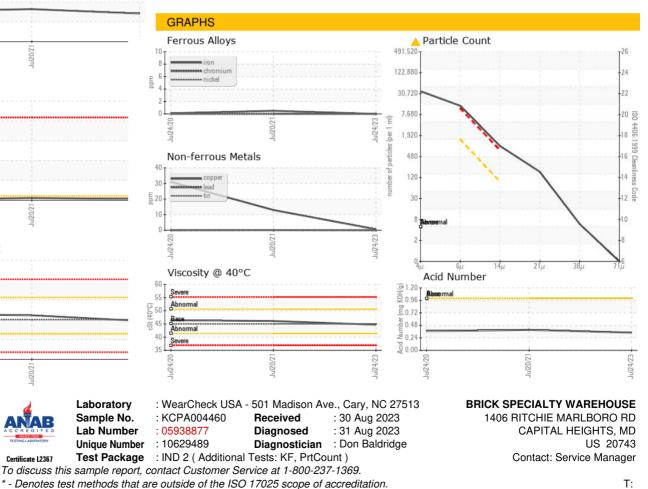




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.7	46.1	46.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						



Bottom



* - 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: Service Manager - BRICAP

F: