

PROBLEM SUMMARY

Sample Rating Trend

WEAR

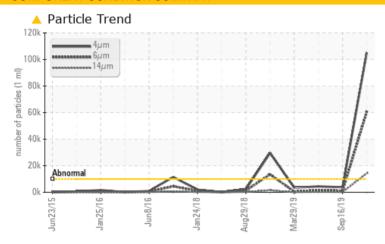
KAESER C-6E (S/N 1006)

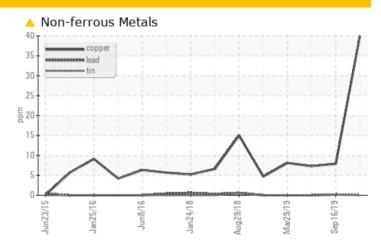
Component

Compressor

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>50	<u>40</u>	8	7
Particles >4µm		ASTM D7647	>10000	<u> </u>	3793	4421
Particles >6µm		ASTM D7647	>2500	60500	1028	1590
Particles >14µm		ASTM D7647	>320	14090	147	258
Particles >21µm		ASTM D7647	>80	<u> </u>	55	106
Particles >38µm		ASTM D7647	>20	<u> </u>	10	12
Particles >71µm		ASTM D7647	>4	<u>^</u> 24	4	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>	19/17/14	19/18/15
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	MODER

Customer Id: WESLONWC Sample No.: WC0390907 Lab Number: 04885973 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
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Change Filter MISSED May 21 2020 ? We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

16 Sep 2019 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. 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.



18 Jun 2019 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

29 Mar 2019 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER C-6E (S/N 1006)

Component

Compressor

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

DIAGNOSIS

Recommendation

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

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

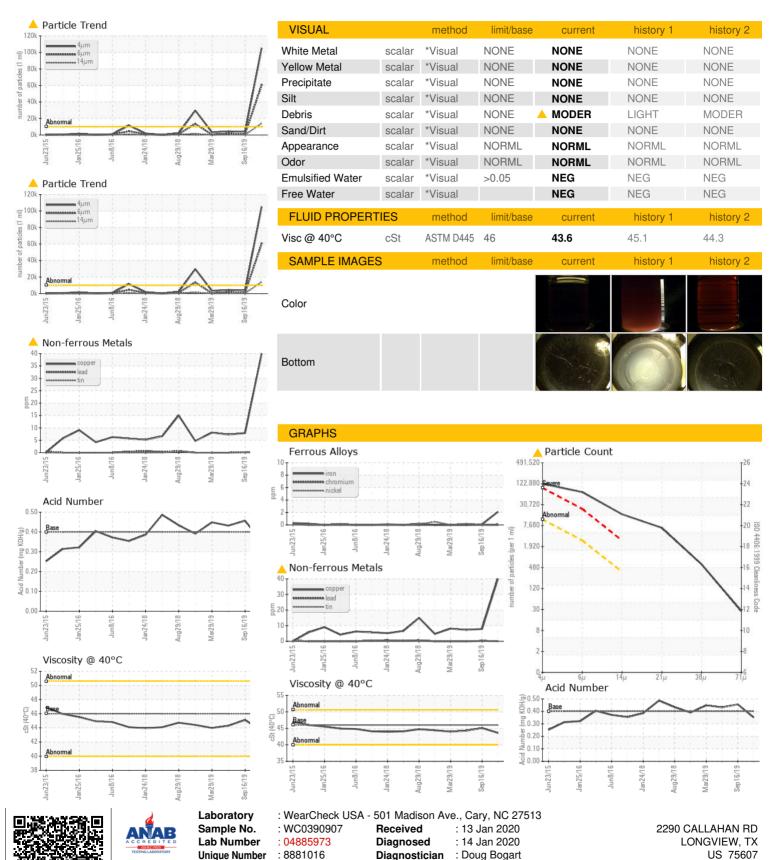
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Machine Age hrs Client Info 138668 137649 134730 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 2 <1			Jun 2015 J.	ın2016 Jun2016 Jar	2018 Aug2018 Mar2019	Sep2019	
Sample Date Client Info 08 Jan 2020 16 Sep 2019 18 Jun 2019 Machine Age hrs Client Info 138668 137649 134730 Oil Age hrs Client Info N/A N/A N/A Oil Changed Client Info N/A N/A N/A Sample Status method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 2 <1	SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Machine Age hrs Client Info 138668 137649 134730 Oil Age hrs Client Info 0 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 2 <1 0 Chromium ppm ASTM D5185m >50 2 <1 0 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >10 <1 <1 0 Copper ppm ASTM D5185m >10 <1 <1 0 Tin ppm ASTM D5185m >50 40 8 7 Tin ppm ASTM D5185m 0 <1 <1 <1	Sample Number		Client Info		WC0390907	WCI2351486	WC04753360
Oil Age hrs Client Info N/A N/B 2 1 <	Sample Date		Client Info		08 Jan 2020	16 Sep 2019	18 Jun 2019
Client Info	Machine Age	hrs	Client Info		138668	137649	134730
Sample Status method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 2 <1	Oil Age	hrs	Client Info		0	0	0
WEAR METALS method limit/base current history 1 history 2 Iron ppm ASTM D5185m >50 2 <1	Oil Changed		Client Info		N/A	N/A	N/A
Iron	Sample Status				ABNORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 <1 0 <1 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >10 <1 <1 0 Aluminum ppm ASTM D5185m >10 <1 <1 0 Lead ppm ASTM D5185m >10 <1 <1 0 Copper ppm ASTM D5185m >10 <1 <1 0 Copper ppm ASTM D5185m >10 <1 <1 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 1 0 <1	WEAR METALS		method	limit/base	current	history 1	history 2
Nickel	Iron	ppm	ASTM D5185m	>50	2	<1	0
Titanium	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum ppm ASTM D5185m >10 <1 <1 0 Lead ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >10 <1 <1 0 Copper ppm ASTM D5185m >50 ▲ 40 8 7 Tin ppm ASTM D5185m 0 <1 <1 <1 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 1 0 <1 0 Boron ppm ASTM D5185m 0 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 <1 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 2 <1 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>2</td> <th>0</th> <td>0</td> <td>0</td>	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >50 ▲ 40 8 7 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Tin ppm ASTM D5185m >10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Lead	ppm	ASTM D5185m	>10	<1	<1	0
Antimony ppm ASTM D5185m 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 1 0 <1 0 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 90 0 <1 0 Magnesium ppm ASTM D5185m 90 4 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 11 35 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base<	Copper	ppm	ASTM D5185m	>50	40	8	7
Vanadium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 1 0 <1 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 4 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 11 35 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm		ppm	ASTM D5185m	>10	<1	<1	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 1 0 <1 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 4 0 0 Magnesium ppm ASTM D5185m 90 4 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 1 135 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm	Antimony	ppm	ASTM D5185m		0	0	0
ADDITIVES method limit/base current history 1 history 2 Boron ppm ASTM D5185m 1 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 1 0 <1 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m <1 <1 0 0 Magnesium ppm ASTM D5185m 90 4 0 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 0 Phosphorus ppm ASTM D5185m 11 35 18 18 Zinc ppm ASTM D5185m 0 0 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 1 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Cadmium		ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 90 0 <1	ADDITIVES		method	limit/base	current	history 1	history 2
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Manganese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m 90 4 0 0 Calcium ppm ASTM D5185m 2 <1	Barium	ppm	ASTM D5185m	90	0	<1	0
Magnesium ppm ASTM D5185m 90 4 0 0 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 11 35 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m 25 1 1 <1 Sodium ppm ASTM D5185m 20 0 0 2 Potassium ppm ASTM D5185m 20 0 0 <1 FLUID CLEANLINESS method limit/base current history 1 history 2 Particles >4µm ASTM D7647 >10000 105081 3793 4421 Particles >50µm ASTM D7647 >2500 60500 1028 1590	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 11 35 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m 25 1 1 <1 Sodium ppm ASTM D5185m 0 0 2 2 Potassium ppm ASTM D5185m >20 0 0 <1 FLUID CLEANLINESS method limit/base current history 1 history 2 Particles >4µm ASTM D7647 >10000 105081 3793 4421 Particles >6µm ASTM D7647 >2500 60500 1028 1590 Particles >21µm ASTM D7647 >80 5790 55 106 <th< td=""><td>Manganese</td><td>ppm</td><td>ASTM D5185m</td><td></td><th><1</th><td><1</td><td>0</td></th<>	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus ppm ASTM D5185m 11 35 18 Zinc ppm ASTM D5185m 0 0 0 Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >25 1 1 <1	Magnesium	ppm	ASTM D5185m	90	4	0	0
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Sulfur ppm ASTM D5185m 15803 6392 12455 CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >25 1 1 <1	Phosphorus	ppm	ASTM D5185m		11	35	18
CONTAMINANTS method limit/base current history 1 history 2 Silicon ppm ASTM D5185m >25 1 1 <1	Zinc	ppm	ASTM D5185m		0	0	0
Silicon ppm ASTM D5185m >25 1 1 <1 Sodium ppm ASTM D5185m 0 0 2 Potassium ppm ASTM D5185m >20 0 0 <1 FLUID CLEANLINESS method limit/base current history 1 history 2 Particles >4µm ASTM D7647 >10000 ▲ 105081 3793 4421 Particles >6µm ASTM D7647 >2500 ▲ 60500 1028 1590 Particles >14µm ASTM D7647 >320 ▲ 14090 147 258 Particles >21µm ASTM D7647 >80 ▲ 5790 55 106 Particles >38µm ASTM D7647 >20 ▲ 521 10 12 Particles >71µm ASTM D7647 >4 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	Sulfur	ppm	ASTM D5185m		15803	6392	12455
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Potassium ppm ASTM D5185m >20 0 0 <1 FLUID CLEANLINESS method limit/base current history 1 history 2 Particles >4μm ASTM D7647 >10000 ▲ 105081 3793 4421 Particles >6μm ASTM D7647 >2500 ▲ 60500 1028 1590 Particles >14μm ASTM D7647 >320 ▲ 14090 147 258 Particles >21μm ASTM D7647 >80 ▲ 5790 55 106 Particles >38μm ASTM D7647 >20 ▲ 521 10 12 Particles >71μm ASTM D7647 >4 Δ 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 Δ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	Silicon	ppm	ASTM D5185m	>25	1	1	<1
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Particles >6μm ASTM D7647 >2500 60500 1028 1590 Particles >14μm ASTM D7647 >320 14090 147 258 Particles >21μm ASTM D7647 >80 5790 55 106 Particles >38μm ASTM D7647 >20 521 10 12 Particles >71μm ASTM D7647 >4 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
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Particles >21μm ASTM D7647 >80 ▲ 5790 55 106 Particles >38μm ASTM D7647 >20 ▲ 521 10 12 Particles >71μm ASTM D7647 >4 ▲ 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	Particles >6µm		ASTM D7647	>2500	60500	1028	1590
Particles >38μm ASTM D7647 >20 ▲ 521 10 12 Particles >71μm ASTM D7647 >4 ▲ 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	•		ASTM D7647		14090	147	258
Particles >38μm ASTM D7647 >20 ▲ 521 10 12 Particles >71μm ASTM D7647 >4 ▲ 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	Particles >21µm		ASTM D7647	>80	5790	55	106
Particles >71μm ASTM D7647 >4 Δ 24 4 1 Oil Cleanliness ISO 4406 (c) >20/18/15 Δ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	·		ASTM D7647	>20	521	10	12
Oil Cleanliness ISO 4406 (c) >20/18/15 ▲ 24/23/21 19/17/14 19/18/15 FLUID DEGRADATION method limit/base current history 1 history 2	•					4	1
	·			>20/18/15		19/17/14	19/18/15
	FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
	Acid Number (AN)	mg KOH/g					

Contact/Location: ROB WALLIN - WESLONWC



OIL ANALYSIS REPORT



: IND 2 (Additional Tests: PrtCount)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.

Certificate L2367

Test Package

Contact: ROB WALLIN

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