

PROBLEM SUMMARY

Sample Rating Trend

VIS DEBRIS

7773514 (S/N 1105)

Component

Compressor

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



COMPONENT CONDITION SUMMARY

No relevant graphs to display

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC 1	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Debris	scalar	*Visual	NONE	MODER	NONE	NONE

Customer Id: PALKUTKC Sample No.: KC100972 Lab Number: 05872216 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

14 Dec 2022 Diag: Angela Borella

ISO



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



22 Jun 2022 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.



06 Jan 2022 Diag: Angela Borella

VIS DEBRIS



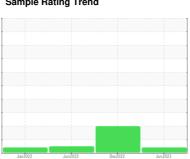
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



7773514 (S/N 1105)

Compressor

KAESER SIGMA (OEM) S-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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

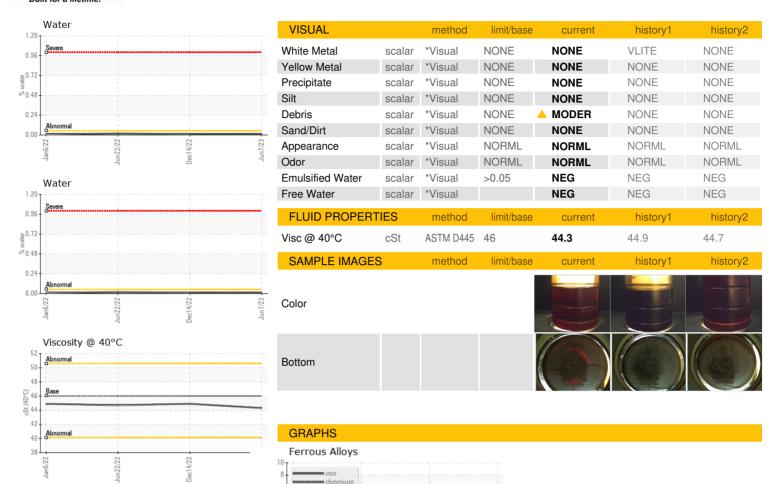
Fluid Condition

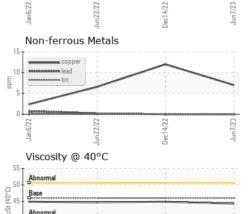
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

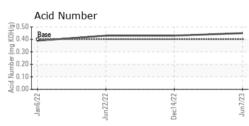
Sample Date Client Info 07 Jun 2023 14 Dec 2022 22 Jun 2022 Machine Age hrs Client Info 17119 12936 8466 Client Info Mol Changed Not Changed Sample Status Electric Not Changed ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL MEANT Mistory2 Mol Changed ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL Mol Changed ABNORMAL ABNO			Jan202	2 Jun2022	Dec2022 Ji	ın2023		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 17119 12936 8466 Oil Age hrs Client Info 4183 7944 5534 Oil Changed Client Info ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 0 Chromium ppm ASTM D5185m >10 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >2 0 0 0 Alturinum ppm ASTM D5185m >10 0 <1 0 Lead ppm ASTM D5185m >10 0 <1 0 Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Adanganese ppm ASTM D5185m 0 0 0 0 Aganesium ppm ASTM D5185m 0 0 0 0 0 Aganesium ppm ASTM D5185m 0 0 0 0 0 Astm D5185m 22 1 0 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 0 0 Phosphorus ppm ASTM D5185m 22 1 0 0 0 0 0 0 0 0 0	Sample Number		Client Info		KC100972	KC101571	KC104251	
Oil Age hrs Client Info 4183 7944 5534 Oil Changed Client Info Not Changed Not Changed Not Changed Sample Status Client Info Not Changed Not Change Not Change	Sample Date		Client Info		07 Jun 2023	14 Dec 2022	22 Jun 2022	
Client Info	Machine Age	hrs	Client Info		17119	12936	8466	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM DS185m >50 <1 0 <1 Chromium ppm ASTM DS185m >50 <1 0 0 Nickel ppm ASTM DS185m >3 0 0 0 Titanium ppm ASTM DS185m >2 0 0 0 Alluminum ppm ASTM DS185m >2 0 0 0 Alluminum ppm ASTM DS185m >10 0 <1 0 Lead ppm ASTM DS185m >10 0 <1 0 Copper ppm ASTM DS185m >10 0 <1 0 Vanadium ppm ASTM DS185m >0 0 0 0 Cadmium ppm ASTM DS185m 0 0 0 0 Barium ppm ASTM DS185m 0 0 0	Oil Age	hrs	Client Info		4183	7944	5534	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1 0 Aluminum ppm ASTM D5185m >10 0 <1 0 Lead ppm ASTM D5185m >10 0 <1 0 Copper ppm ASTM D5185m >10 0 0 <1 Tin ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0	Oil Changed		Client Info		Not Changd	Changed	Not Changd	
Chromium ppm ASTM D5185m >50 <1 0 0 0 0	Sample Status				ABNORMAL	ABNORMAL	NORMAL	
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	WEAR METALS		method	limit/base	current	history1	history2	
Nickel	Iron	ppm	ASTM D5185m	>50	<1	0	<1	
Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0	
Silver	Nickel	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	Titanium	ppm	ASTM D5185m	>3	0	0	0	
Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >50 7 12 7 Tin ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 0 0 0 2 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m < 1 0 0 Phosphorus ppm ASTM D5185m 2 <1 0 0	Silver	ppm	ASTM D5185m	>2	0	0	0	
Copper ppm ASTM D5185m >50 7 12 7 Tin ppm ASTM D5185m >10 0 0 0 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 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 2 Molybdenum ppm ASTM D5185m 90 0 0 0 0 Magnesium ppm ASTM D5185m <-1	Aluminum	ppm	ASTM D5185m	>10	0	<1	0	
Tin	Lead	ppm	ASTM D5185m	>10	0	0	<1	
Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 0 0 2 Molybdenum ppm ASTM D5185m 90 0 0 0 0 Manganese ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 2 <1	Copper	ppm	ASTM D5185m	>50	7	12	7	
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ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 90 0 0 2 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m <1	Vanadium	ppm			0	0	0	
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Barium ppm ASTM D5185m 90 0 0 2 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 41 68 54 Zinc ppm ASTM D5185m <1 8 3 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 2 1 Sodium ppm ASTM D5185m >20 0 0 2 Water % ASTM D5185m >5 5 5 4 Potassium p	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 2 <1 0 0 Zinc ppm ASTM D5185m 41 68 54 Zinc ppm ASTM D5185m <1 8 3 CONTAMINANTS method limit/base current history1 history2 Mastm D5185m >25 <1 2 1 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 history2 Water % ASTM D5185m >25 <1 2 1 <th co<="" td=""><th>Boron</th><td>ppm</td><td>ASTM D5185m</td><td></td><th>0</th><td>0</td><td>0</td></th>	<th>Boron</th> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 2 <1 0 0 Zinc ppm ASTM D5185m 41 68 54 Zinc ppm ASTM D5185m <1 8 3 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 2 1 Sodium ppm ASTM D5185m >20 0 0 2 Water % ASTM D5185m >20 0 0 2 Water % ASTM D6304 >0.05 0.010 0.011 0.018 Particles >4µm ASTM D7647 >1300 6129 1270 <	Barium	ppm	ASTM D5185m	90	0	0	2	
Magnesium ppm ASTM D5185m 90 24 6 19 Calcium ppm ASTM D5185m 2 <1 0 0 Phosphorus ppm ASTM D5185m 2 <1 68 54 Zinc ppm ASTM D5185m <1 8 3 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Molybdenum	ppm	ASTM D5185m		0	0	0	
Calcium ppm ASTM D5185m 2 <1	Manganese	ppm	ASTM D5185m		<1	0	0	
Phosphorus ppm ASTM D5185m 41 68 54 Zinc ppm ASTM D5185m <1	Magnesium	ppm	ASTM D5185m	90	24	6	19	
Zinc ppm ASTM D5185m <1	Calcium	ppm	ASTM D5185m	2	<1	0	0	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 2 1 Sodium ppm ASTM D5185m >20 0 0 2 Potassium ppm ASTM D5185m >20 0 0 2 Water % ASTM D6304 >0.05 0.010 0.011 0.018 ppm Water ppm ASTM D6304 >500 100.1 117.3 181.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >80 Δ321 28 Particles >21μm ASTM D7647 >20 Δ115 9 Particles >38μm ASTM D7647 Δ24 1 Particles >71μm ASTM D7647 Δ20/18/16 17/15/12	Phosphorus	ppm	ASTM D5185m		41	68	54	
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Sodium ppm ASTM D5185m 5 4 Potassium ppm ASTM D5185m >20 0 0 2 Water % ASTM D6304 >0.05 0.010 0.011 0.018 ppm Water ppm ASTM D6304 >500 100.1 117.3 181.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >1300 Δ2385 217 Particles >14μm ASTM D7647 >80 Δ321 28 Particles >21μm ASTM D7647 >20 Δ115 9 Particles >38μm ASTM D7647 >4 Δ24 1 Particles >71μm ASTM D7647 >3 Δ20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2 <th>CONTAMINANTS</th> <th>3</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINANTS	3	method	limit/base	current	history1	history2	
Potassium ppm ASTM D5185m >20 0 0 2 Water % ASTM D6304 >0.05 0.010 0.011 0.018 ppm Water ppm ASTM D6304 >500 100.1 117.3 181.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >1300 Δ 2385 217 Particles >14μm ASTM D7647 >80 Δ 321 28 Particles >21μm ASTM D7647 >20 Δ 115 9 Particles >38μm ASTM D7647 >4 Δ 24 1 Particles >71μm ASTM D7647 >3 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	<1	2	1	
Water % ASTM D6304 >0.05 0.010 0.011 0.018 ppm Water ppm ASTM D6304 >500 100.1 117.3 181.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >1300 Δ 2385 217 Particles >14μm ASTM D7647 >80 Δ 321 28 Particles >21μm ASTM D7647 >20 Δ 115 9 Particles >38μm ASTM D7647 >4 Δ 24 1 Particles >71μm ASTM D7647 >3 Δ 24 1 Particles >71μm ASTM D7647 >3 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		5	5	4	
ppm Water ppm ASTM D6304 >500 100.1 117.3 181.0 FLUID CLEANLINESS method limit/base current Limit/base current Limit/base current Limit/base current Limit/base history1 Limit/base history2 Particles >4μm ASTM D7647 >1300 Δ 2385 217 Particles >14μm ASTM D7647 >80 Δ 321 28 Particles >21μm ASTM D7647 >20 Δ 115 9 Particles >38μm ASTM D7647 >4 Δ 24 1 Particles >71μm ASTM D7647 >3 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0	0	2	
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >1300 Δ 2385 217 Particles >14μm ASTM D7647 >80 Δ 321 28 Particles >21μm ASTM D7647 >20 Δ 115 9 Particles >38μm ASTM D7647 >4 Δ 24 1 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.05	0.010	0.011	0.018	
Particles >4μm ASTM D7647 6129 1270 Particles >6μm ASTM D7647 >1300 Δ 2385 217 Particles >14μm ASTM D7647 >80 Δ 321 28 Particles >21μm ASTM D7647 >20 Δ 115 9 Particles >38μm ASTM D7647 >4 Δ 24 1 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>500	100.1	117.3	181.0	
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Particles >21μm ASTM D7647 >20 ▲ 115 9 Particles >38μm ASTM D7647 >4 ▲ 24 1 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300		<u>^</u> 2385	217	
Particles >38μm ASTM D7647 >4 ≥4 1 Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 ≥ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80		▲ 321	28	
Particles >71μm ASTM D7647 >3 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 Δ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20		<u> 115</u>	9	
Oil Cleanliness ISO 4406 (c) >/17/13 △ 20/18/16 17/15/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4		<u> </u>	1	
FLUID DEGRADATION method limit/base current history1 history2	Particles >71μm		ASTM D7647	>3		2	0	
	Oil Cleanliness		ISO 4406 (c)	>/17/13		2 0/18/16	17/15/12	
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.45 0.43 0.43	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.45	0.43	0.43	



OIL ANALYSIS REPORT











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: KC100972 : 05872216

: 10512000 : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 13 Jun 2023 Received Diagnosed Diagnostician

Dec14/22

: 15 Jun 2023 : Angela Borella

Jun7/23

PALRAM 2000 9735 COMMERCECIR KUTZTOWN, PA US 19530

Contact: Service Manager

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)

T: F: