

PROBLEM SUMMARY

Sample Rating Trend

WATER

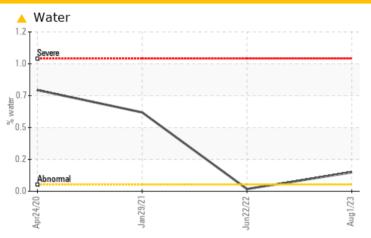
KAESER 6906284

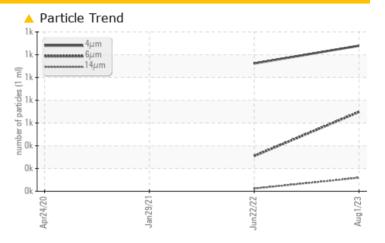
Component

Compressor

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	NORMAL	ABNORMAL				
Water	%	ASTM D6304	>0.05	△ 0.143	0.017	△ 0.594				
ppm Water	ppm	ASTM D6304	>500	1433	179.6	△ 5940				
Particles >14µm		ASTM D7647	>80	119	24					
Particles >21µm		ASTM D7647	>20	4 0	8					
Particles >38µm		ASTM D7647	>4	<u>^</u> 6	1					
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/17/14	17/15/12					
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG				
Free Water	scalar	*Visual		1.0	NEG	<u> </u>				

Customer Id: ARMMIA Sample No.: KC05926142 Lab Number: 05926142 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

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.



29 Jan 2021 Diag: Don Baldridge

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. There is too much water present in this sample to perform a particle count. All component wear rates are normal. Appearance is hazy. Free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.



24 Apr 2020 Diag: Jonathan Hester

WATER



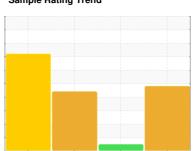
Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. There is too much water present in this sample to perform a particle count. All component wear rates are normal. Appearance is hazy. Excessive free water present. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



KAESER 6906284

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Free water present. There is a light concentration of water present in the oil.

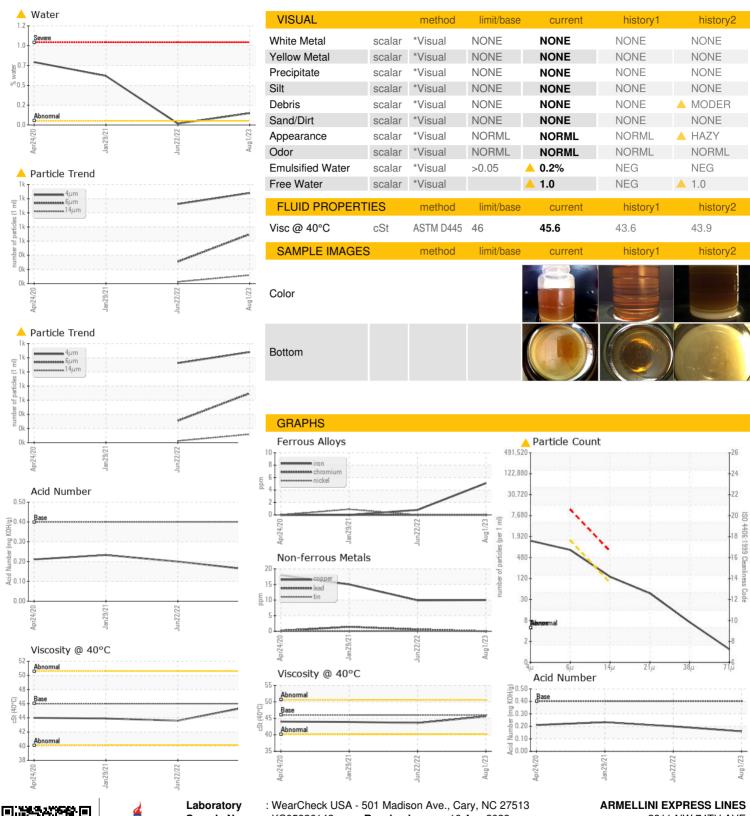
Fluid Condition

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

		Apr202	0 Jan 2021	Jun 2022 Au	1g2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC05926142	KC106151	KC88787
Sample Date		Client Info		01 Aug 2023	22 Jun 2022	29 Jan 2021
Machine Age	hrs	Client Info		8192	6675	4751
Oil Age	hrs	Client Info		0	3000	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	1	0
Lead	ppm	ASTM D5185m	>10	0	<1	1
Copper	ppm	ASTM D5185m	>50	10	10	15
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m	90	1	0	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	6	18	15
Calcium	ppm	ASTM D5185m	2	2	0	0
Phosphorus	ppm	ASTM D5185m		1	6	6
Zinc	ppm	ASTM D5185m		80	72	61
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	1
Sodium	ppm	ASTM D5185m		0	14	3
Potassium	ppm	ASTM D5185m	>20	1	4	1
Water	%	ASTM D6304	>0.05	<u>^</u> 0.143	0.017	△ 0.594
ppm Water	ppm	ASTM D6304	>500	<u> </u>	179.6	<u></u> 5940
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1279	1123	
Particles >6µm		ASTM D7647		697	310	
Particles >14μm		ASTM D7647	>80	<u> 119</u>	24	
Particles >21µm		ASTM D7647	>20	<u>40</u>	8	
Particles >38µm		ASTM D7647	>4	<u>^</u> 6	1	
Particles >71μm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	17/15/12	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.16	0.20	0.233



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: KC05926142 : 05926142

: 10606089 Test Package : IND 2

Received : 16 Aug 2023

Diagnosed : 17 Aug 2023 : Jonathan Hester Diagnostician

2811 NW 74TH AVE

MIAMI, FL US 33122

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)

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