

PROBLEM SUMMARY

Sample Rating Trend

ISO

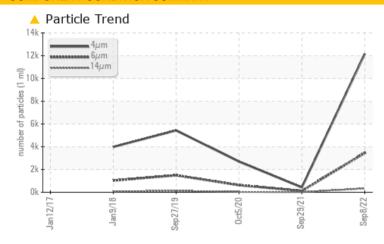
4395199 (S/N 1124)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	NORMAL	NORMAL		
Particles >6μm	ASTM D7647	>1300	△ 3453	117	628		
Particles >14μm	ASTM D7647	>80	337	13	33		
Particles >21µm	ASTM D7647	>20	<u> </u>	4	8		
Oil Cleanliness	ISO 4406 (c)	>/17/13	21/19/16	14/11	16/12		

Customer Id: RRBGIR Sample No.: KCP33348 Lab Number: 05646605 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

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

29 Sep 2021 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 oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



05 Oct 2020 Diag: Angela Borella

NORMAL



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. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



27 Sep 2019 Diag: Don Baldridge

ISO



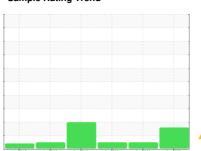
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO

4395199 (S/N 1124)

Compressor

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

DIAGNOSIS

Recommendation

Oil and 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.

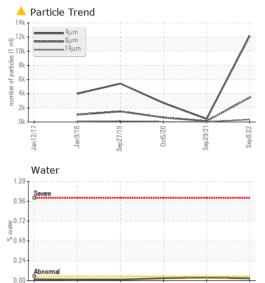
Fluid Condition

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

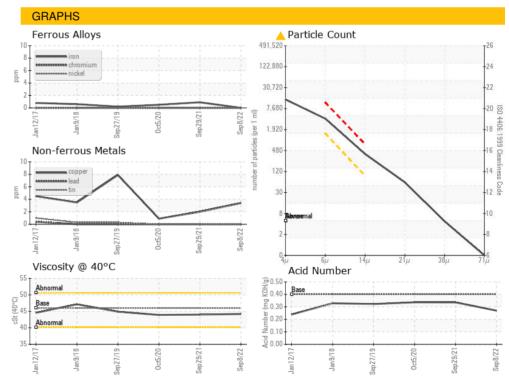
		Jan2017	Jan2018 Sep2019	Oct2020 Sep2021	Sep.2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP33348	KCP36485	KCP30436
Sample Date				08 Sep 2022	29 Sep 2021	05 Oct 2020
Machine Age	hrs			35486	32136	30626
Oil Age	hrs			3300	1510	3000
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
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	<1	3	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			<1	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		0	<1	11
Barium	ppm	ASTM D5185m	90	<1	8	32
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	48	75	89
Calcium	ppm	ASTM D5185m	2	<1	<1	1
Phosphorus	ppm	ASTM D5185m		3	4	2
Zinc	ppm	ASTM D5185m		5	0	4
Sulfur	ppm	ASTM D5185m		19886	16857	16997
CONTAMINANTS	}	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	0	1
Sodium	ppm	ASTM D5185m		24	20	13
Potassium	ppm	ASTM D5185m	>20	2	3	1
Water	%	ASTM D6304	>0.05	0.025	0.037	0.028
ppm Water	ppm	ASTM D6304	>500	251.4	379.7	285.8
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		12164	425	2699
Particles >6µm		ASTM D7647	>1300	4 3453	117	628
Particles >14μm		ASTM D7647	>80	337	13	33
Particles >21µm		ASTM D7647	>20	<u>^</u> 52	4	8
Particles >38µm		ASTM D7647	>4	4	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	2 1/19/16	14/11	16/12
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	та КОЦ/а	VCTM DOUVE	0.4	0.27	0.226	0.227



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
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	LIGHT	NONE	NONE
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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.0	43.9
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10141144

: KCP33348 : 05646605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Sep 2022

Diagnosed : 22 Sep 2022 Diagnostician : Jonathan Hester Test Package : IND 2 (Additional Tests: KF, PrtCount)

USA 62640 Contact: TERRY CASTLEMAN

Contact/Location: TERRY CASTLEMAN - RRBGIR

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: (217)627-2143

R & R BINDERY

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F: