

PROBLEM SUMMARY

Sample Rating Trend

ISO

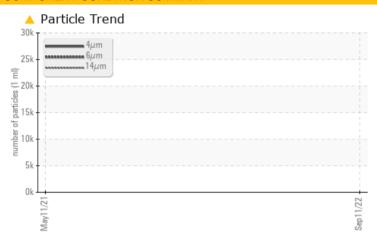
KAESER 6989720

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TES	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	
Particles >6µm	ASTM D7647	>1300	10667		
Particles >14µm	ASTM D7647	>80	237		
Particles >21µm	ASTM D7647	>20	<u>^</u> 70		
Oil Cleanliness	ISO 4406 (c)	>/17/13	22/21/15		

Customer Id: VICHAY Sample No.: KCP37334 Lab Number: 05639076 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDE	D 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

11 May 2021 Diag: Don Baldridge

VIS DERRIS



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. 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

ISO

KAESER 6989720

Component

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

			May2021	Sep.2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP37334	KCP32019	
Sample Date				11 Sep 2022	11 May 2021	
Machine Age	hrs			4526	1233	
Oil Age	hrs			3000	0	
Oil Changed	0			Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	nnm	ASTM D5185m	>50	<1	2	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	3	<1	
Tin		ASTM D5185m	>10	0	<1	
Antimony	ppm	ASTM D5185m	>10		0	
Vanadium		ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm			-		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	10	
Barium	ppm	ASTM D5185m	90	6	33	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	47	79	
Calcium	ppm	ASTM D5185m	0	<1	1	
Phosphorus	ppm	ASTM D5185m	0	5	4	
Zinc	ppm	ASTM D5185m	0	5	0	
Sulfur	ppm	ASTM D5185m	23500	17367	16259	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	0	
Sodium	ppm	ASTM D5185m		9	12	
Potassium	ppm	ASTM D5185m	>20	1	4	
Water	%	ASTM D6304	>0.05	0.029	0.020	
ppm Water	ppm	ASTM D6304	>500	291.1	202.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		29562		
Particles >6µm		ASTM D7647	>1300	10667		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u>^</u> 70		
Particles >38μm		ASTM D7647	>4	2		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/21/15</u>		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	1/011:	10TH D00:-	4.0			

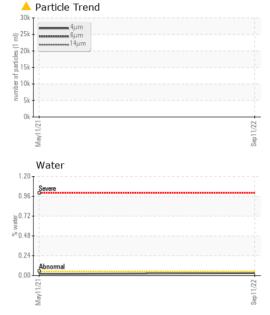
Acid Number (AN)

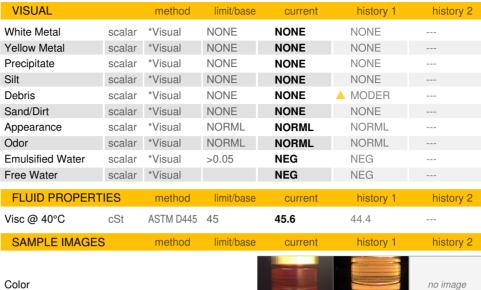
0.326

0.35



OIL ANALYSIS REPORT





Ferrous Alloys	A Particle Count	
iron	491,520	
**************************************	122,880	
	30,720	
	7,680	
May11/21	Sep 11/22 (per 1 ml	
Non-ferrous Metals	Sep 11/22 Sep 11/27 Number of particles (par 1 m) 480	
copper	120	
- and	30	
	8 Barree mal	
12/		
May11/21	2Z/11/2S	
Viscosity @ 40°C	⁴ μ 6μ 14μ Acid Number	21μ 38μ 71
Severe	Blassormal	
Abnormal	£0.72	
Abiloilla	© 0.48	
Severe	N 0.24	
Severe	Base mal 0.09 0.09 0.072 0.08 0.024	
May11/21	Sep 11/22	



Laboratory Sample No. Lab Number Unique Number

: KCP37334 : 05639076 : 10128606

Bottom

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

: 12 Sep 2022 Diagnosed Diagnostician : Don Baldridge

: 14 Sep 2022

1256 SAN LUIS OBISBO AVE HAYWARD, CA USA 94587

Contact: Service Manager

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate L2367 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:

VICARIOUS

no image