

PROBLEM SUMMARY

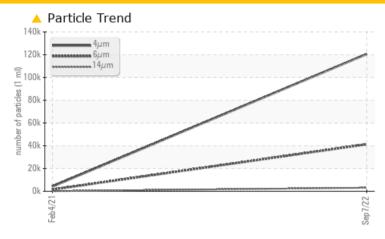
Sample Rating Trend ISO

3057932 (S/N 1267)

Component Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TE	ST RESULTS				
Sample Status			ABNORMAL	ATTENTION	
Particles >6µm	ASTM D7647	>1300	41279	<u>▲</u> 1513	
Particles >14µm	ASTM D7647	>80	3071	▲ 138	
Particles >21µm	ASTM D7647	>20	690	<u>^</u> 32	
Particles >38µm	ASTM D7647	>4	<u> </u>	2	
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u>4</u> 24/23/19	<u>18/14</u>	

Customer Id: NEWFRA Sample No.: KCP49349 Lab Number: 05640356 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	
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

04 Feb 2021 Diag: Don Baldridge





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



ISO

3057932 (S/N 1267)

Component

Compressor

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

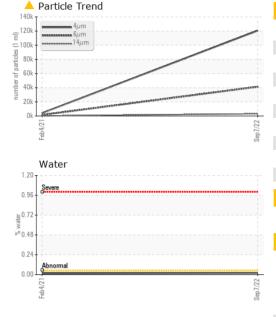
Fluid Condition

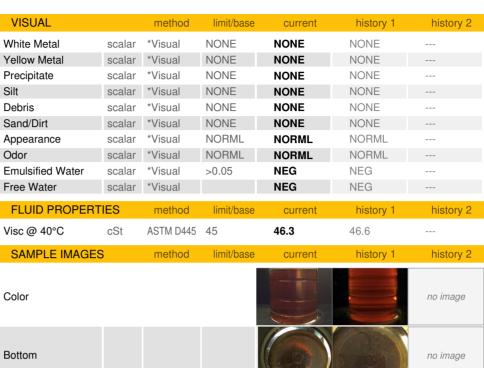
The condition of the oil is suitable for further service.

			Feb 2021	Sep2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49349	KCP27855	
Sample Date				07 Sep 2022	04 Feb 2021	
Machine Age	hrs			29721	26090	
Oil Age	hrs			3631	3131	
Oil Changed				Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	
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	<1	0	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	12	10	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	12	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	25	31	
Calcium	ppm	ASTM D5185m	0	<1	0	
Phosphorus	ppm	ASTM D5185m	0	1	2	
Zinc	ppm	ASTM D5185m	0	47	60	
Sulfur	ppm	ASTM D5185m	23500	17942	17823	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	7	10	
Sodium	ppm	ASTM D5185m		10	5	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.05	0.021	0.015	
ppm Water	ppm	ASTM D6304	>500	216.7	155.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		120625	4169	
Particles >6µm		ASTM D7647	>1300	<u>41279</u>	<u>▲</u> 1513	
Particles >14μm		ASTM D7647	>80	<u>^</u> 3071	<u> </u>	
Particles >21μm		ASTM D7647	>20	<u>^</u> 690	▲ 32	
Particles >38μm		ASTM D7647	>4	<u> 10</u>	2	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>24/23/19</u>	<u> </u>	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2



OIL ANALYSIS REPORT





GRAPHS	A Dankiala Court	
Ferrous Alloys	Particle Count	
iron	122,880	
	30,720	
	7,680	
Feb4/21	200-200 (Jest Joseph Jo	
Non-ferrous Metals	10 480 480	
copper	120-	
parameter (i)	30-	
-	8 Bibrasemal	
Feb 4/21	25/7 gg	
Viscosity @ 40°C	$\begin{array}{ccc} 0 \downarrow & & & & & \\ 4\mu & & 6\mu & & 14\mu \end{array}$	21μ 38μ 7
Т;	Acid Number	
Severe Abnormal	(S) 1.20 H) 0.96 E) 0.72 h) 0.46 H) 0.48 P) 0.24 V) 0.00	
Abnormal	€ 0.72	
Abrionia	E 0.48	
Severe 0	A O O O	





Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: KCP49349 : 05640356 : 10129886

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Sep 2022 Diagnosed

: 15 Sep 2022 Diagnostician : Doug Bogart

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

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)

NEW VIEW MARBLE AND GRANITE

1 MASTER DR FRANKLIN, MA

USA 02038 Contact: Service Manager