

PROBLEM SUMMARY

Sample Rating Trend

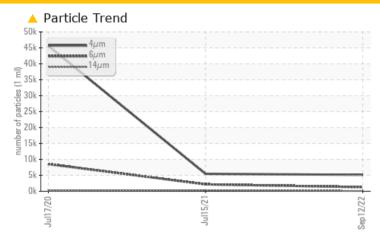


Machine Id KAESER 6049836 (S/N 1013)

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 TEST RESULTS								
Sample Status			ATTENTION	ABNORMAL	ABNORMAL			
Particles >14μm	ASTM D7647	>80	A 89	△ 329	<u>^</u> 207			
Oil Cleanliness	ISO 4406 (c)	>/17/13	20/17/14	<u> </u>	2 0/15			

Customer Id: PETBAL Sample No.: KCP28716 Lab Number: 05640372 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 ihester@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

15 Jul 2021 Diag: Don Baldridge





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.



17 Jul 2020 Diag: Angela Borella

ISO



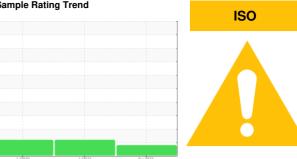
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 6049836 (S/N 1013)

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 moderate amount of particulates present in the oil.

Fluid Condition

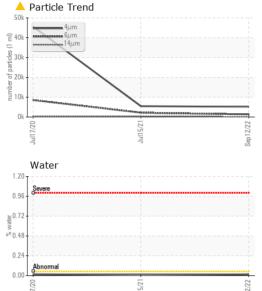
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jul2020		Jul2021 Sep2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP28716	KCP41897	KCP10782
Sample Date				12 Sep 2022	15 Jul 2021	17 Jul 2020
Machine Age	hrs			14539	11468	8239
Oil Age	hrs			3142	3229	8239
Oil Changed				Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<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	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	8	12	32
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	26	10
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	30	20	10
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	8	<1
Zinc	ppm	ASTM D5185m	0	52	28	31
Sulfur	ppm	ASTM D5185m	23500	17761	16986	14203
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	2	<1
Sodium	ppm	ASTM D5185m		5	8	9
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304		0.015	0.009	0.016
ppm Water	ppm	ASTM D6304	>500	157.6	95.4	169.9
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		5149	5466	45624
Particles >6µm		ASTM D7647		1296	<u>^</u> 2171	<u>▲</u> 8535
Particles >14μm		ASTM D7647	>80	<u>^</u> 89	<u>▲</u> 329	<u>^</u> 207
Particles >21μm		ASTM D7647	>20	18	<u>▲</u> 86	△ 35
Particles >38μm		ASTM D7647	>4	1	4	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/17/14	<u> </u>	<u>^</u> 20/15
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2

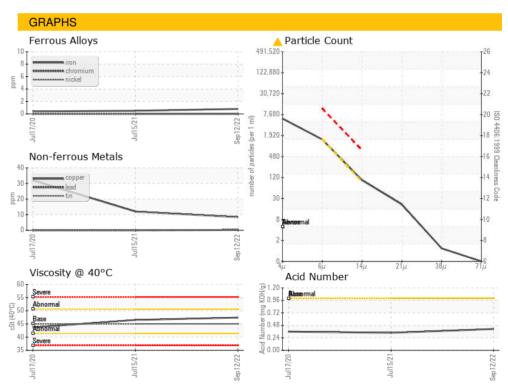
0.360



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	NONE	NONE	LIGHT
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 PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.4	46.5	43.7
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10129902

: KCP28716 : 05640372

Bottom

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

Received Diagnosed

: 13 Sep 2022 : 15 Sep 2022 Diagnostician : Jonathan Hester

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)

PETER'S SPRINGS & ALIGNMENT

400 ENSOR ST BALTIMORE, MD

USA 21202

Contact: Service Manager

T: F: