

PROBLEM SUMMARY

Sample Rating Trend

ISO

Machine Id

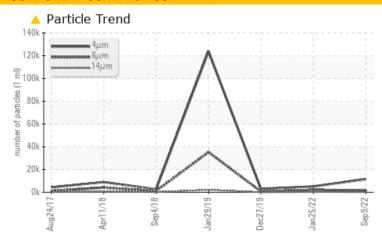
KAESER AS 25T 4899148 (S/N 1337)

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 TEST RE	SULTS					
Sample Status			ATTENTION	ABNORMAL	NORMAL	
Particles >6µm	ASTM D7647	>1300	1454	<u>^</u> 2145	660	
Oil Cleanliness	ISO 4406 (c)	>/17/13	21/18/13	▲ 18/15	17/12	

Customer Id: CARFREMD Sample No.: KCP46304 Lab Number: 05645534 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

25 Jan 2022 Diag: Angela Borella

ISO



We recommend you service the filters on this component. 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.



27 Dec 2019 Diag: Jonathan Hester

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.



29 Jan 2019 Diag: Angela Borella

ISO



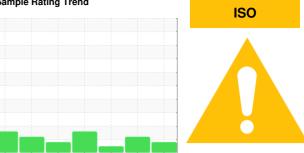
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER AS 25T 4899148 (S/N 1337)

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 silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

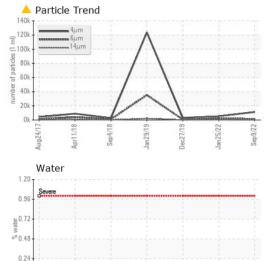
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Aug2017	Apr2018 Sep2018	Jan 2019 Dec 2019 Jan 2022	Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP46304	KCP05475781	KCP21824
Sample Date				09 Sep 2022	25 Jan 2022	27 Dec 2019
Machine Age	hrs			36957	36947	27642
Oil Age	hrs			100	9301	27642
Oil Changed				Changed	N/A	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
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	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	3	17	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			0	<1
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	0	<1	0
Barium	ppm	ASTM D5185m	90	52	0	11
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	66	0	40
Calcium	ppm	ASTM D5185m	0	<1	0	<1
Phosphorus	ppm	ASTM D5185m	0	7	7	<1
Zinc	ppm	ASTM D5185m	0	5	0	20
Sulfur	ppm	ASTM D5185m	23500	16791	14918	17955
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	2	<1
Sodium	ppm	ASTM D5185m		2	0	11
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.030	0.003	0.015
ppm Water	ppm	ASTM D6304	>500	306.3	25.9	153.8
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		11351	5173	3113
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>^</u> 2145	660
Particles >14µm		ASTM D7647	>80	53	▲ 307	30
Particles >21µm		ASTM D7647	>20	13	△ 62	8
Particles >38µm		ASTM D7647	>4	0	2	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	<u>▲</u> 18/15	17/12
Oil Cleanliness FLUID DEGRADA	TION	ISO 4406 (c)	>/17/13 limit/base	△ 21/18/13 current	▲ 18/15 history 1	17/12 history 2

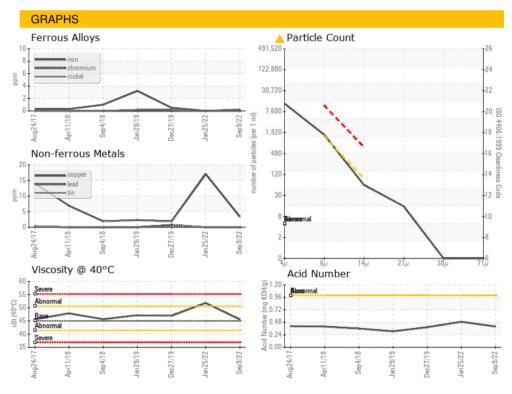


0.00

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	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 PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	45.5	51.8	46.9
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10140073

: KCP46304 : 05645534

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

: 19 Sep 2022 Diagnosed : 21 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)

CARMAX 5601 URBANA PIKE FREDERICK, MD USA 21704

Contact:

T: F: