

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id

KAESER ASD 40 4445649 (S/N 1092)

Component Compressor Fluid

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

A Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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

		Mar2013 Ap	2014 Oct2014 Dec2015	Aug2018 Nov2019 Apr2022 Dec202	12 Mar2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015509	KCP47098	KCP43668
Sample Date		Client Info		25 Mar 2024	12 Dec 2022	01 Apr 2022
Machine Age	hrs	Client Info		61131	54480	50989
Oil Age	hrs	Client Info		6568	3491	3718
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	0	0	1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	<u> </u>	15	11
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	<1	0	8
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	<1	5	30
Calcium	ppm	ASTM D5185m	0	4	0	0
Phosphorus	ppm	ASTM D5185m	0	1	4	6
Zinc	ppm	ASTM D5185m	0	<1	21	67
Sulfur	ppm	ASTM D5185m	23500	11571	19807	15604
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	<1
Sodium	ppm	ASTM D5185m		0	2	10
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water	%	ASTM D6304	>0.05	0.007	0.005	0.004
opm Water	ppm	ASTM D6304	>500	72	58.9	42.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
						00.40
Particles >4µm		ASTM D7647			9302	3840
		ASTM D7647 ASTM D7647	>1300		9302 2 967	3840 1067
Particles >6µm			>1300 >80			
Particles >6μm Particles >14μm		ASTM D7647	>80		A 2967	1067
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>80		▲ 2967▲ 226	1067 84
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4		 ▲ 2967 ▲ 226 ▲ 41 	1067 84 22
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4	 	 2967 226 41 2 	1067 84 22 0
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	TION	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>80 >20 >4 >3	 	 2967 226 41 2 0 	1067 84 22 0 0

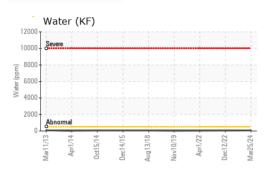
Report Id: SERENG [WUSCAR] 06142237 (Generated: 04/12/2024 07:17:27) Rev: 1

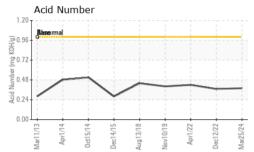
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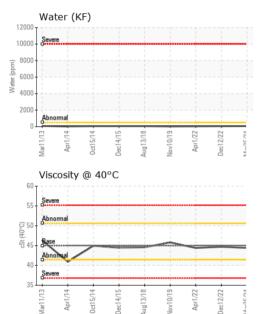


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OIL ANALYSIS REPORT

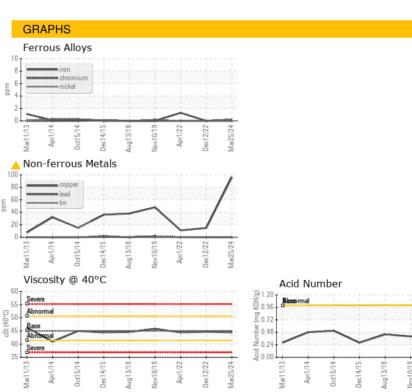






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.4	44.7	44.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
				P A		

Bottom



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SERVICE UNIFORM Sample No. : KCPA015509 Received : 08 Apr 2024 2580 S RARITAN ST Lab Number : 06142237 Tested : 11 Apr 2024 ENGLEWOOD, CO Unique Number : 10967045 Diagnosed : 11 Apr 2024 - Don Baldridge US 80110 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: * - 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) F:

Contact/Location: ? ? - SERENG Page 2 of 2

Apr1/22

Dec12/22

Aar25/24