

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **KAESER 7312817**

Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. The 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

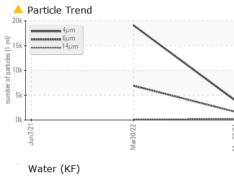
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

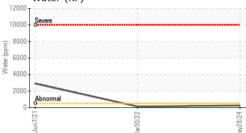
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017993	KCP44968	KCP32105
Sample Date		Client Info		28 May 2024	30 Mar 2022	07 Jun 2021
Machine Age	hrs	Client Info		3367	1034	495
Oil Age	hrs	Client Info		1200	539	495
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
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	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	2	2	3
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				0
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	<1
Barium	ppm	ASTM D5185m	90	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	57	46	4
Calcium	ppm	ASTM D5185m	0	2	0	<1
Phosphorus	ppm	ASTM D5185m	0	4	0	2
Zinc	ppm	ASTM D5185m	0	20	20	39
Sulfur	ppm	ASTM D5185m	23500	23271	17931	16464
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		23	23	10
Potassium	ppm	ASTM D5185m	>20	5	10	6
Water	%	ASTM D6304		0.024	0.012	▲ 0.290
ppm Water	ppm	ASTM D6304		249	126.9	2 900
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3813	19092	
Particles >6µm		ASTM D7647	>1300	<u> </u>	6 901	
Particles >14μm		ASTM D7647	>80	A 199	1 51	
		ASTM D7647	>20	<u> </u>	<u> </u>	
Particles >21µm		ASTM D7647	>4	2	1	
Particles >21µm Particles >38µm Particles >71µm				2 0	1 0	
Particles >21µm Particles >38µm		ASTM D7647				
Particles >21µm Particles >38µm Particles >71µm	TION	ASTM D7647 ASTM D7647	>3	0	0	

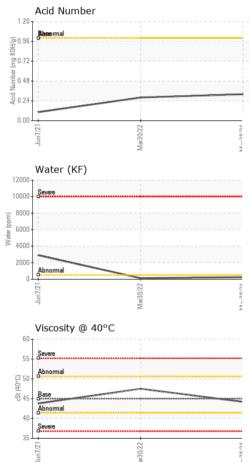
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Contact/Location: JOHN KING - UNCHIL



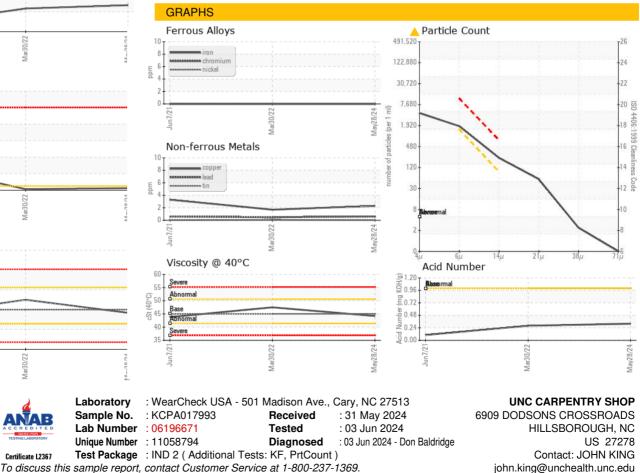






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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	▲ 5.0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.2	47.5	43.8
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
SAMPLE IMAGES	5	method	limit/base	current	history1	history2



* - 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)

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