

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **4916214 (S/N 1537)** Component

Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

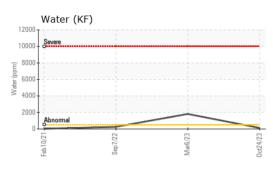
		Feb202	1 Sep2022	Mar2023 Or	12023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA007608	KCP54056	KCP44546
Sample Date		Client Info		24 Oct 2023	06 Mar 2023	07 Sep 2022
Machine Age	hrs	Client Info		7863	7185	6635
Oil Age	hrs	Client Info		0	500	1330
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<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	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		0	<1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	210			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	20	46	11
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	84	84	47
Calcium	ppm	ASTM D5185m	0	2	0	<1
Phosphorus	ppm	ASTM D5185m	0	2	17	44
Zinc	ppm	ASTM D5185m	0	0	0	2
Sulfur	ppm	ASTM D5185m	23500	18569	22291	16541
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	1
Sodium	ppm	ASTM D5185m		16	20	13
Potassium	ppm	ASTM D5185m	>20	3	1	0
Water	%	ASTM D6304	>0.05	0.011	▲ 0.182	0.025
ppm Water	ppm	ASTM D6304	>500	119.6	▲ 1820	259.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3273		7809
Particles >6µm		ASTM D7647	>1300	854		1 362
Particles >14µm		ASTM D7647	>80	61		54
Particles >21µm		ASTM D7647	>20	14		14
Particles >38µm		ASTM D7647	>4	0		1
Particles >71µm		ASTM D7647		0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13		▲ 20/18/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.31	0.37	0.35
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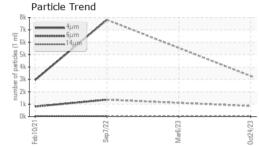
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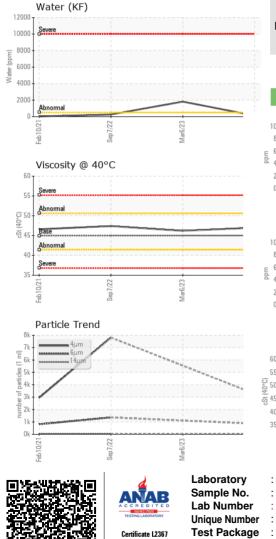
Contact/Location: Service Manager - SMAFORCO



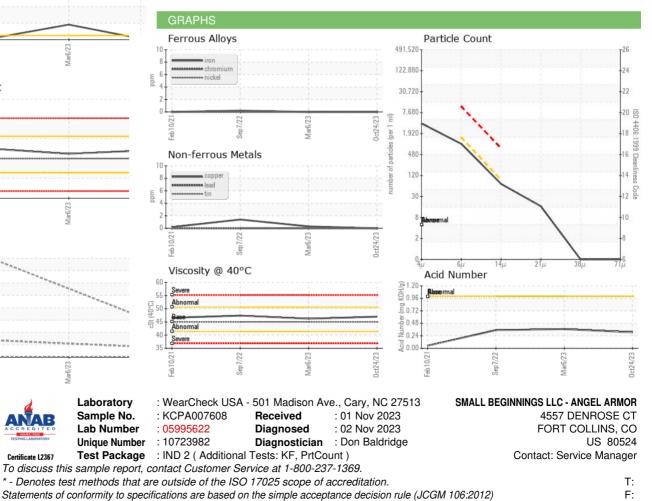
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	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	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	<u>▲</u> 1.0	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.0	46.2	47.4
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•		
Bottom						



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