

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER CSD 75 5185870 (S/N 1104)

Component Compressor Fluid

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

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

Fluid Condition

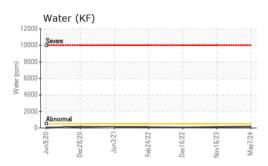
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

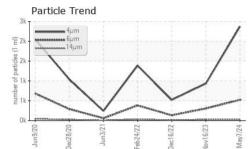
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016777	KCPA011235	KCP52875
Sample Date		Client Info		07 May 2024	16 Nov 2023	16 Dec 2022
Machine Age	hrs	Client Info		44030	41883	38004
Oil Age	hrs	Client Info		0	0	6642
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel		ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm		>3		0	0
	ppm	ASTM D5185m		0		1
Aluminum	ppm	ASTM D5185m		0	2	
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m		1	10	10
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	3	0	1
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	34	33	6
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	0	2
Zinc	ppm	ASTM D5185m	0	12	17	18
Sulfur	ppm	ASTM D5185m	23500	25193	21682	19043
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Sodium	ppm	ASTM D5185m		6	4	0
Potassium	ppm	ASTM D5185m	>20	<1	5	<1
Water	%	ASTM D6304	>0.05	0.017	0.013	0.006
ppm Water	ppm	ASTM D6304	>500	171	137	65.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2373	932	522
Particles >6µm		ASTM D7647	>1300	523	304	132
Particles >14µm		ASTM D7647	>80	28	26	13
Particles >21µm		ASTM D7647	>20	5	5	5
Particles >38µm		ASTM D7647	>4	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12	17/15/12	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.47	0.42	0.45

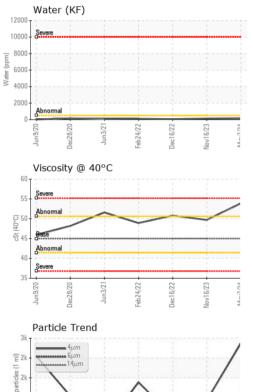
Contact/Location: Service Manager - UNDMOU Page 1 of 2

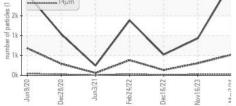


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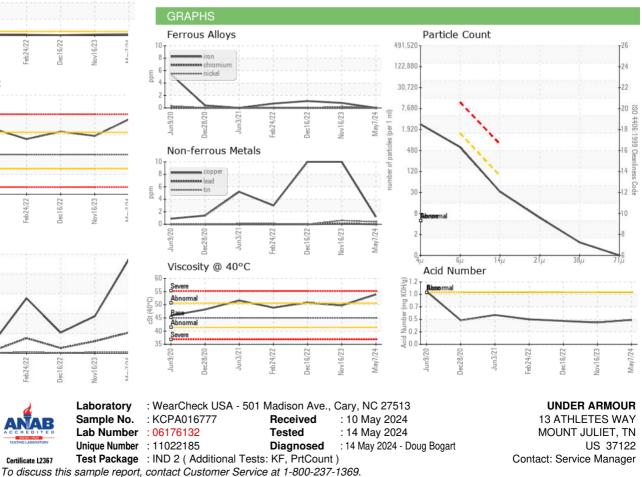




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	53.9	49.7	50.8
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						



Bottom



* - 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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Certificate 12367

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