

OIL ANALYSIS REPORT

SAMPLE INFORMATION method limit/base

Sample Rating Trend ISO

current

historv1

historv2

Machine Id

KAESER SM 10 5583156 (S/N 2197)

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

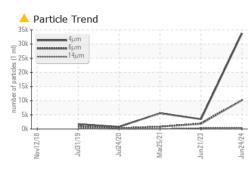
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA019300	KCPA005313	KCP27283
Sample Date		Client Info		24 Jun 2024	21 Jun 2023	25 Mar 2021
Machine Age	hrs	Client Info		2154	1620	820
Oil Age	hrs	Client Info		619	0	135
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	14	5	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	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	0	0	50
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	3	10	64
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m	0	0	6	7
Zinc	ppm	ASTM D5185m	0	3	3	0
Sulfur	ppm	ASTM D5185m	23500	24118	24071	17238
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	0
Sodium	ppm	ASTM D5185m		<1	3	8
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>0.05	0.009	▲ 0.324	▲ 0.245
ppm Water	ppm	ASTM D6304	>500	93	3240	4 2450
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		33779	3480	5563
Particles >6µm		ASTM D7647	>1300	<u> </u>	1896	808
Particles >14µm		ASTM D7647	>80	<u> </u>	<mark>▲</mark> 323	20
Particles >21µm		ASTM D7647	>20	<u> </u>	<u> </u>	4
Particles >38µm		ASTM D7647	>4	4	<u> </u>	0
Particles >71µm		ASTM D7647	>3	0	2	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	▲ 19/18/16	17/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN) ::43:03) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.47 Contact/Locatio	0.46 m: MARK MOIT	0.335 OZA - TOWFA

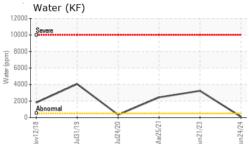
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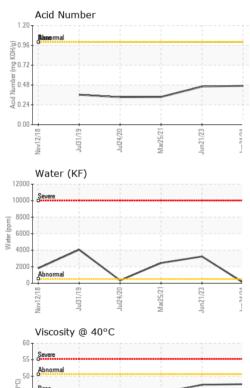
Contact/Location: MARK MOITOZA - TOWFAL

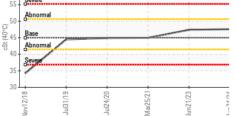


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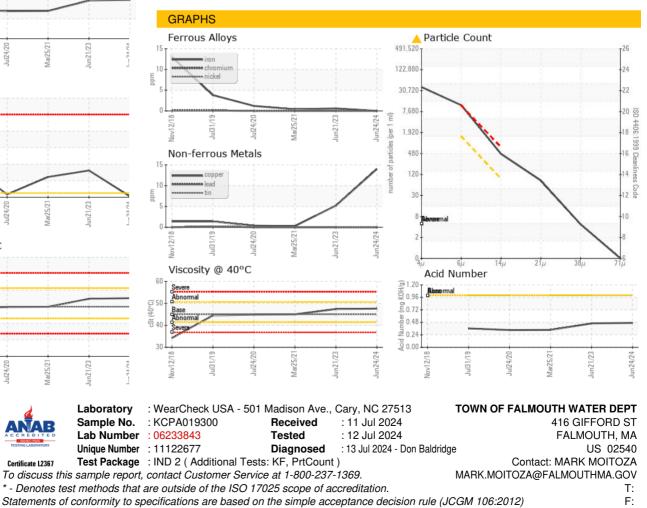


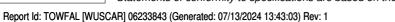


Certificate 12367

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	0.2%	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.6	47.4	45.0
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom





Contact/Location: MARK MOITOZA - TOWFAL