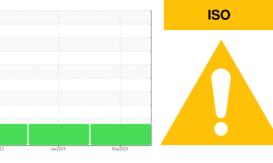


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 5420735

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

DIAGNOSIS

A Recommendation

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

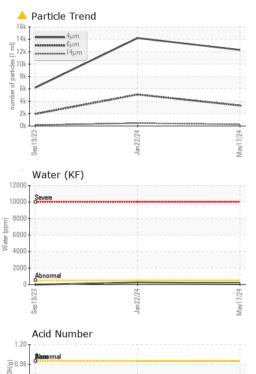
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

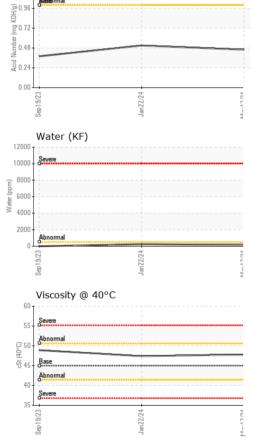
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012981	KCPA007366	KCPA006428
Sample Date		Client Info		17 May 2024	22 Jan 2024	19 Sep 2023
Machine Age	hrs	Client Info		23630	22436	21232
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	2	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	1	4
Tin	ppm	ASTM D5185m	>10	<1	0	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	0
Barium	ppm	ASTM D5185m	90	12	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	37	65	25
Calcium	ppm	ASTM D5185m	0	<1	3	0
Phosphorus	ppm	ASTM D5185m	0	3	0	<1
Zinc	ppm	ASTM D5185m	0	1	0	26
Sulfur	ppm	ASTM D5185m	23500	21280	20137	19135
CONTAMINANTS						
		method	limit/base	current	history1	history2
Silicon	ppm		limit/base	current <1	history1 <1	<mark>history2</mark> <1
Silicon Sodium						
	ppm	ASTM D5185m		<1	<1	<1
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >20	<1 6	<1 11	<1 6
Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.05	<1 6 1	<1 11 2	<1 6 2
Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.05	<1 6 1 0.015	<1 11 2 0.025	<1 6 2 0.00
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.05 >500 limit/base	<1 6 1 0.015 150 current 12276	<1 11 2 0.025 255 history1 14199	<1 6 2 0.00 0.00 history2 6182
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base	<1 6 1 0.015 150 current 12276 3298	<1 11 2 0.025 255 history1 14199 5078	<1 6 2 0.00 0.00 history2 6182 0 1935
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80	<1 6 1 0.015 150 <u>current</u> 12276 ▲ 3298 ▲ 267	<1 11 2 0.025 255 history1 14199 5078 458	<1 6 2 0.00 0.00 history2 6182 1935 150
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20	<1 6 1 0.015 150 current 12276 3298 267 60	<1 11 2 0.025 255 history1 14199 ▲ 5078 ▲ 458 ▲ 107	<1 6 2 0.00 0.00 history2 6182 1935 150 31
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20	<1 6 1 0.015 150 <u>current</u> 12276 ▲ 3298 ▲ 267	<1 11 2 0.025 255 history1 14199 5078 458	<1 6 2 0.00 0.00 history2 6182 1935 150
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4 >3	<1 6 1 0.015 150 current 12276 ▲ 3298 ▲ 3298 ▲ 267 ▲ 60 1 0	<1 11 2 0.025 255 history1 14199 5078 458 107 3 0	<1 6 2 0.00 0.00 history2 6182 1935 150 31 1 0
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20	<1 6 1 0.015 150 <u>current</u> 12276 ▲ 3298 ▲ 267 ▲ 60 1	<1 11 2 0.025 255 history1 14199 ▲ 5078 ▲ 458 ▲ 107 3	<1 6 2 0.00 0.00 history2 6182 1935 150 31 1
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm IESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4 >3	<1 6 1 0.015 150 current 12276 ▲ 3298 ▲ 3298 ▲ 267 ▲ 60 1 0	<1 11 2 0.025 255 history1 14199 5078 458 107 3 0	<1 6 2 0.00 0.00 history2 6182 1935 150 31 1 0

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



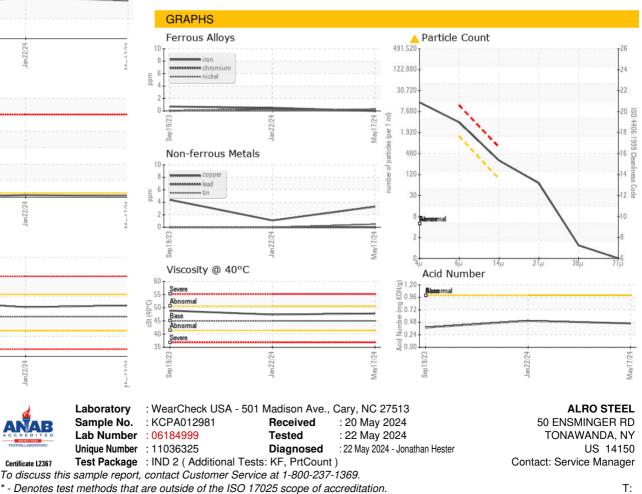
OIL ANALYSIS REPORT





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	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	47.8	47.4	48.9
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				.		

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate 12367

Contact/Location: Service Manager - ALRTON Page 2 of 2

F: