

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



# Machine Id KAESER AS 31 1431021 (S/N 3112749)

Compressor

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

## Recommendation

Resample at the next service interval to monitor.

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.

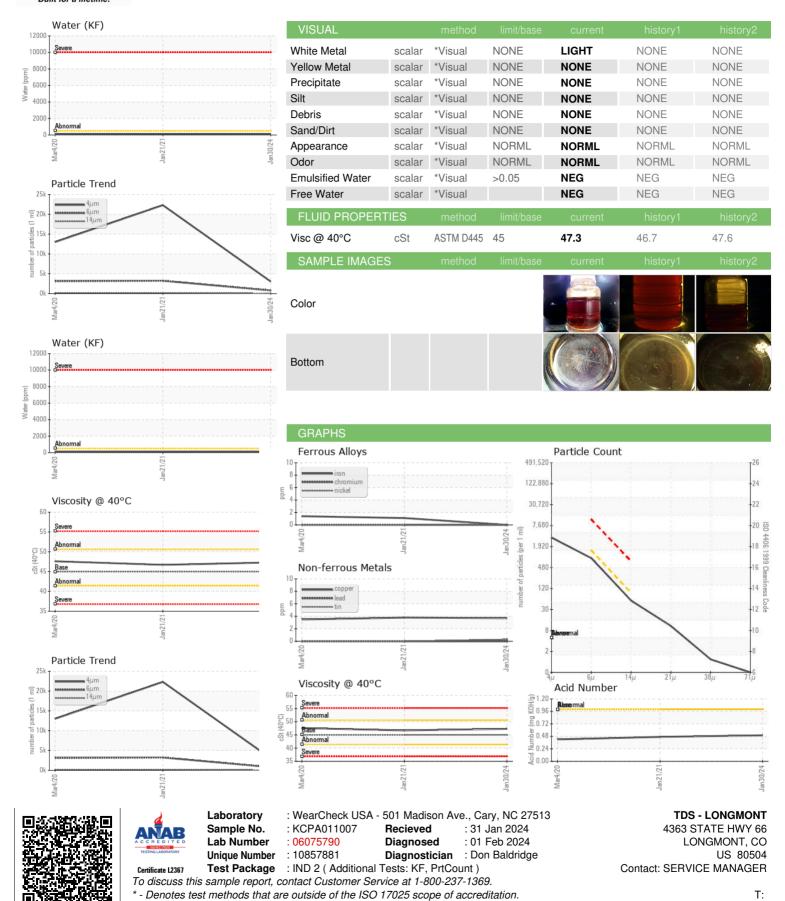
## **Fluid Condition**

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

		Ma	2020	Jan2021 Jan202	14	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011007	KCP34370	KCP24275
Sample Date		Client Info		30 Jan 2024	21 Jan 2021	04 Mar 2020
Machine Age	hrs	Client Info		50113	42372	40227
Oil Age	hrs	Client Info		0	1365	3000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	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	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	4	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m			0	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	0
Barium	ppm	ASTM D5185m	90	0	4	3
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	15	32	36
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m	0	0	3	2
Zinc	ppm	ASTM D5185m	0	2	3	10
Sulfur	ppm	ASTM D5185m	23500	16752	18098	17706
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		4	12	12
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water	%	ASTM D6304	>0.05	0.008	0.010	0.008
ppm Water	ppm	ASTM D6304	>500	88	106.8	81.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		3044	22290	12986
Particles >6µm		ASTM D7647	>1300	785	<u>▲</u> 3228	▲ 3127
Particles >14μm		ASTM D7647	>80	48	<u>^</u> 205	<u>^</u> 220
Particles >21µm		ASTM D7647	>20	9	<u></u> 51	▲ 51
Particles >38μm		ASTM D7647	>4	1	4	2
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13	<b>△</b> 19/15	<b>△</b> 19/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩U/a	VCTM D604E	1.0	0.50	0.470	0.422



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

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