

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

### Machine Id KAESER BS 51 1314271 (S/N 1067)

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.

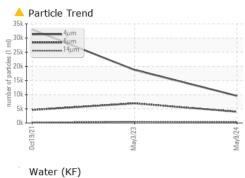
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012491	KCP52309	KCP39265
Sample Date		Client Info		09 May 2024	03 May 2023	19 Oct 2021
Machine Age	hrs	Client Info		55670	53261	49909
Oil Age	hrs	Client Info		2400	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	1
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	- <1	0	0
Copper	ppm	ASTM D5185m		4	4	6
Tin	ppm	ASTM D5185m	>10	۔ <1	0	0
Antimony	ppm	ASTM D5185m	- 10			0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ррп				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	2	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	69	59	50
Calcium	ppm	ASTM D5185m	0	5	0	0
Phosphorus	ppm	ASTM D5185m	0	5	20	2
Zinc	ppm	ASTM D5185m	0	11	25	7
Sulfur	ppm	ASTM D5185m	23500	23306	21666	19094
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	2
Sodium	ppm	ASTM D5185m		17	15	12
Potassium	ppm	ASTM D5185m	>20	4	3	<1
Water	%	ASTM D6304	>0.05	0.021	0.016	0.017
ppm Water	ppm	ASTM D6304	>500	219	165.0	177.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9563	18748	33007
Particles >6µm		ASTM D7647	>1300	<b>A</b> 3952	▲ 6951	▲ 4609
Particles >14µm		ASTM D7647	>80	<b>A</b> 332	<b>4</b> 86	<b>1</b> 86
Particles >21µm		ASTM D7647	>20	<b></b> 59	<u> </u>	19
Particles >38µm		ASTM D7647	>4	1	4	0
Particles >71µm		ASTM D7647		0	0	0
			-			
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	🔺 21/20/16	🔺 19/15
		ISO 4406 (c) method	>/17/13 limit/base	20/19/16 current	21/20/16 history1	▲ 19/15 history2

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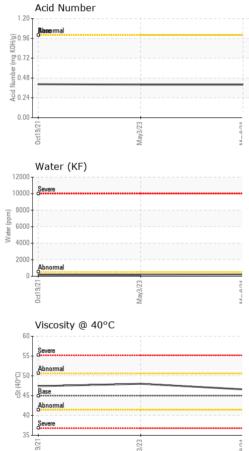
Contact/Location: D. KINGHAL - RUBNOR



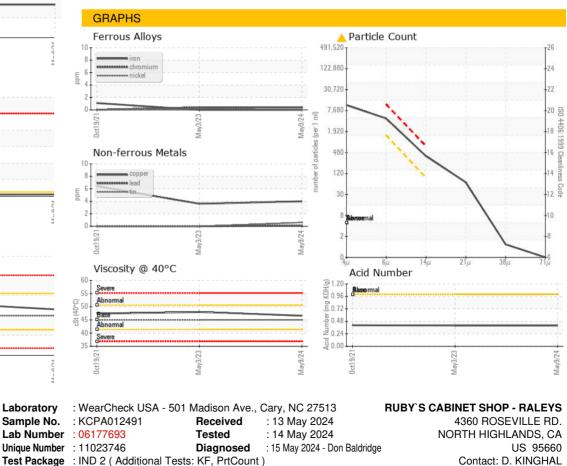
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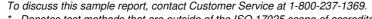






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 45	current 46.6	history1 48.0	history2 47.4
	cSt					
Visc @ 40°C	cSt	ASTM D445	45	46.6	48.0	47.4





\* - 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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