

### **OIL ANALYSIS REPORT**

# KAESER SM 10 3599135 (S/N 1617)

Compressor

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

#### 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

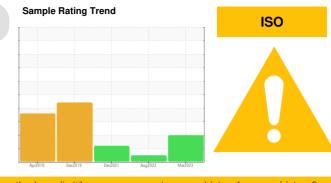
All component wear rates are normal.

#### 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	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP54011	KCP48216	KCP43925
Sample Date		Client Info		10 Mar 2023	12 Aug 2022	13 Dec 2021
Machine Age	hrs	Client Info		17584	16914	15180
Oil Age	hrs	Client Info		0	2000	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m		۰ <1	0	0
Silver		ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0 <1	<1	<1
	ppm		>10	0		0
Lead	ppm	ASTM D5185m			0	
Copper	ppm	ASTM D5185m		8	2	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				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	12	9
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	12	34	76
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	0	2	4	0
Zinc	ppm	ASTM D5185m	0	32	14	4
Sulfur	ppm	ASTM D5185m	23500	21280	18184	17445
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	15	0
Sodium	ppm	ASTM D5185m		2	5	18
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.009	0.012	0.023
ppm Water	ppm	ASTM D6304	>500	94.2	129.8	235.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		30683	1195	4985
Particles >6µm		ASTM D7647	>1300	<u> </u>	223	1390
Particles >14µm		ASTM D7647	>80	<u> </u>	14	0105
Particles >21µm		ASTM D7647	>20	<u> </u>	3	21
Particles >38µm		ASTM D7647	>4	<u> </u>	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	17/15/11	18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)				0.35	0.34	0.346

Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.35 0.34 0.346 Contact/Location: JOHN SIMPSON - OLDWESCA



## **OIL ANALYSIS REPORT**

scalar

scalar

scalar

method

\*Visual

\*Visual

\*Visua

limit/base

NONE

NONE

NONE

current

NONE

NONE

NONE

NONE

VLITE

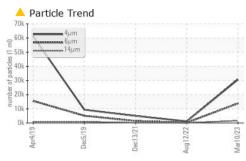
NONE

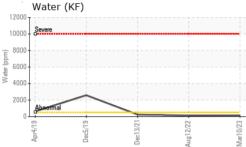
NORML

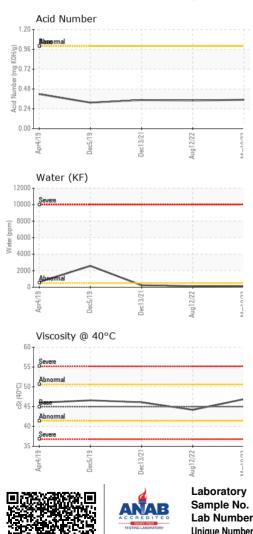
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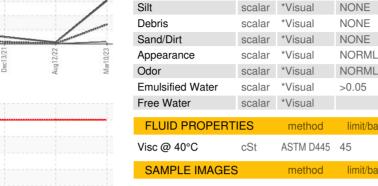
NEG

NEG







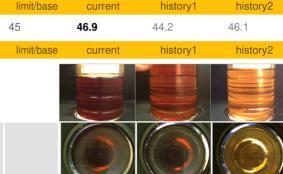


VISUAL

White Metal

Yellow Metal

Precipitate



history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

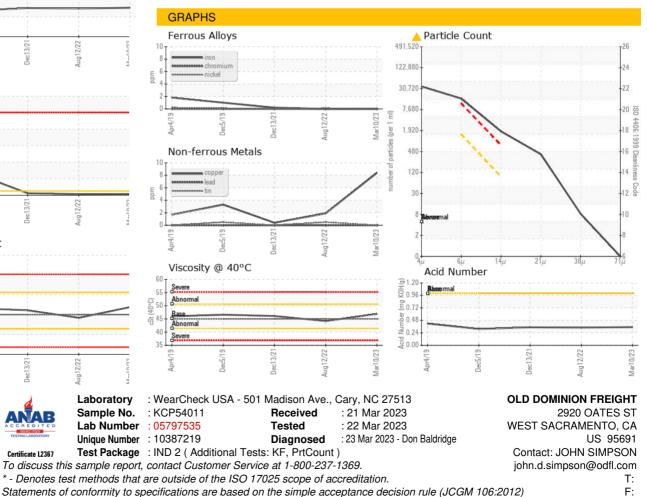
NORML

NEG

NEG

Bottom

Color



Certificate L2367

Contact/Location: JOHN SIMPSON - OLDWESCA