

# **OIL ANALYSIS REPORT**

KAESER SX 5 5364804 (S/N 1154)

Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

# DIAGNOSIS

Machine Id

#### Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

## Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

## Fluid Condition

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

		Jan2017 Feb	52018 Sep2018 Nov20	19 Nov2020 Nov2021 Jun20.	23 Apr2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017085	KCPA006225	KCPA003048
Sample Date		Client Info		11 Apr 2024	20 Sep 2023	05 Jun 2023
Machine Age	hrs	Client Info		18766	17493	17012
Oil Age	hrs	Client Info		1273	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		5	25	16
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m	210	۰ <1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm	method	limit/base	-	history1	history2
			IIIIII/Dase			
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	6	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	23	2	3
Calcium	ppm	ASTM D5185m	2	<1	1	0
Phosphorus	ppm	ASTM D5185m		6	1	0
Zinc	ppm	ASTM D5185m		45	73	79
Sulfur	ppm	ASTM D5185m		20976	15753	18445
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.05	<b>A</b> 0.215	0.002	▲ 0.159
ppm Water	ppm	ASTM D6304	>500	<b>A</b> 2147	23.7	<b>1</b> 590
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4237	3720	
Particles >6µm		ASTM D7647	>1300	<b>A</b> 2308	1323	
Particles >14µm		ASTM D7647	>80	<b>A</b> 393	79	
Particles >21µm		ASTM D7647		▲ 132	15	
Particles >38µm		ASTM D7647	>4	▲ 20	1	
Particles >71µm		ASTM D7647		<u> </u>	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	▲ 19/18/16	9 19/18/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.09	0.27
	ing itoriy	AO I WI DOU4J	J.T	0.02	0.00	0.21

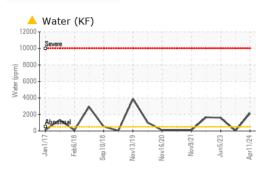
Sample Rating Trend

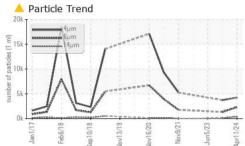
WATER

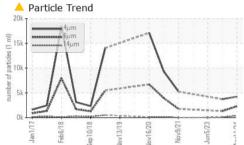
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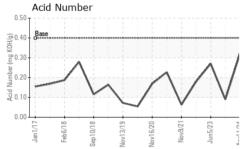


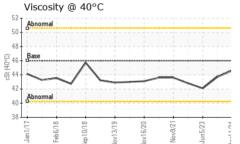
# **OIL ANALYSIS REPORT**





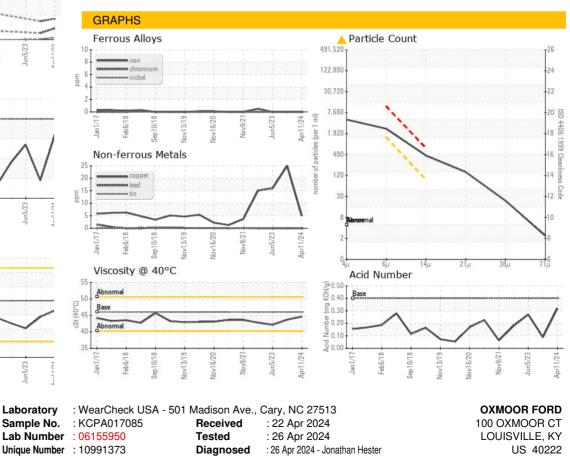






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>0.2%</b>	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	0.0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	43.7	42.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom





To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2 (Additional Tests: KF, PrtCount)

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

Report Id: OXMLOUKY [WUSCAR] 06155950 (Generated: 04/26/2024 12:58:46) Rev: 1

Certificate 12367

Contact/Location: WEBCHECK IN OXMLOUTOY - J. MIDDLETON - OXMLOUKY

T:

F:

Contact: J. MIDDLETON