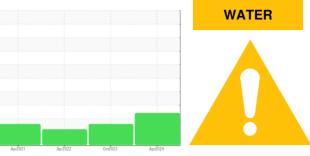


### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 4577231 (S/N 1211)

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

#### DIAGNOSIS

#### 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. There is too much water present in this sample to perform a particle count.

#### Wear

All component wear rates are normal.

#### Contamination

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 acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015365	KCPA000825	KCP44361
Sample Date		Client Info		15 Apr 2024	04 Oct 2023	14 Apr 2022
Machine Age	hrs	Client Info		42064	41171	36031
Oil Age	hrs	Client Info		894	0	3384
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
_ead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	10	<1	3
Tin	ppm	ASTM D5185m		<1	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron		ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	00	0	7	0
	ppm	ASTM D5185m	90	۰ <1	0	0
Molybdenum Manganese	ppm ppm	ASTM D5185m		<1	0	0
Vagnesium	ppm	ASTM D5185m	90	7	26	31
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus		ASTM D5185m	2	0	2	10
Zinc	ppm ppm	ASTM D5185m		42	27	21
Sulfur		ASTM D5185m		42 19411	18236	16008
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	6	19
Potassium	ppm	ASTM D5185m		2	2	4
Water	%	ASTM D6304		<b>A</b> 0.152	0.012	0.006
opm Water	ppm	ASTM D6304	>500	<b>1520</b>	126.5	69.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			4515	8230
Particles >6µm		ASTM D7647	>1300		<b>A</b> 2174	<u> </u>
Particles >14µm		ASTM D7647	>80		<b>2</b> 78	<b>2</b> 30
Particles >21µm		ASTM D7647	>20		<b>▲</b> 76	<b>5</b> 4
Particles >38µm		ASTM D7647	>4		1	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 19/18/15	▲ 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 48:28) Rev: 1	mg KOH/g	ASTM D8045	0.4	0.40	0.37 Location: RAY E	0.38

Report Id: WILLYO [WUSCAR] 06156920 (Generated: 04/24/2024 18:48:28) Rev: 1

Contact/Location: RAY ENNS - WILLYO



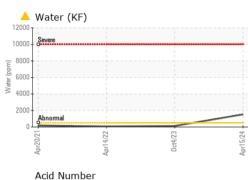
42 Abnorm

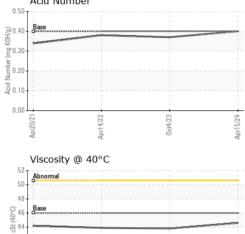
40

38

Apr20/21

## **OIL ANALYSIS REPORT**

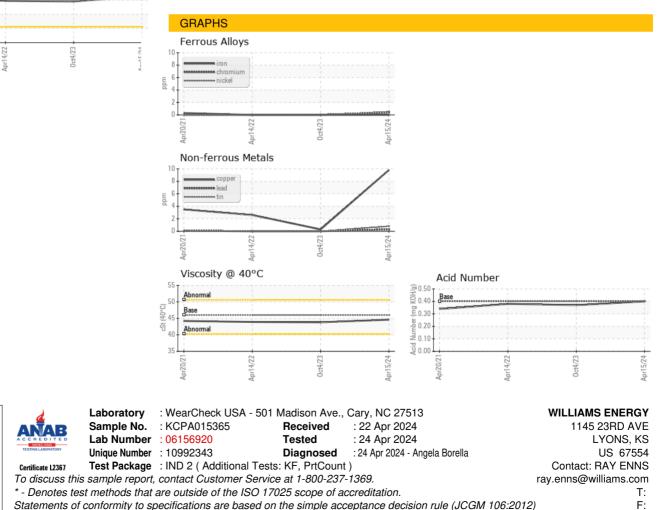




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	43.8	43.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.	5	



Bottom



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