

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **KAESER 5931440**

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

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

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.

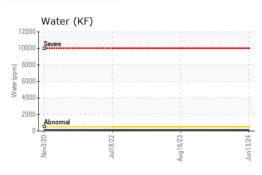
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA019493	KCPA002461	KCP51368
Sample Date		Client Info		13 Jun 2024	16 Aug 2023	18 Jul 2022
Machine Age	hrs	Client Info		30285	24956	20215
Oil Age	hrs	Client Info		5329	4549	5235
Oil Changed		Client Info		Changed	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		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm		>10	0	0	0
Copper	ppm	ASTM D5185m		13	31	20
Tin		ASTM D5185m		0	0	20
Antimony	ppm		>10	0 		
	ppm	ASTM D5185m				
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
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	6	1	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		1	0	9
Zinc	ppm	ASTM D5185m		36	26	0
Sulfur	ppm	ASTM D5185m		22220	22900	17030
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	<1
Sodium	ppm	ASTM D5185m		3	2	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.012	0.008	0.012
ppm Water	ppm	ASTM D6304	>500	123	88.2	121.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		854	89195	37340
Particles >6µm		ASTM D7647	>1300	283	<b>A</b> 38087	<b>12715</b>
Particles >14µm		ASTM D7647	>80	17	<b>2</b> 917	<b>1</b> 380
Particles >21µm		ASTM D7647	>20	2	<u> </u>	<b>A</b> 327
Particles >38µm		ASTM D7647	>4	0	<b>1</b> 9	<b>A</b> 36
Particles >71μm		ASTM D7647	>3	0	1	<b>4</b>
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/15/11	▲ 24/22/19	<u> </u>
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN) :12:54) Rev: 1	mg KOH/g	ASTM D8045	0.4	0.32	0.31 n: JAKE MILLEF	0.36

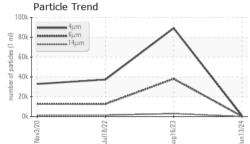
Report Id: PENGARGA [WUSCAR] 06212469 (Generated: 06/20/2024 15:12:54) Rev: 1

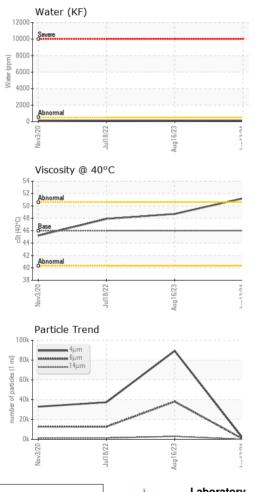
Contact/Location: JAKE MILLER - PENGARGA



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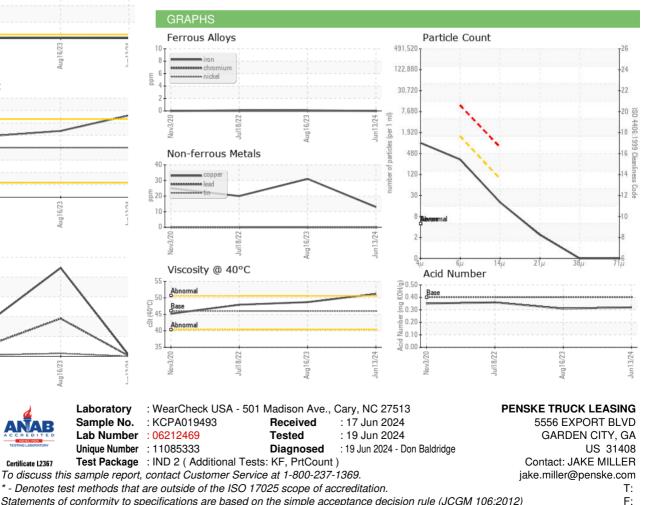






	calar	*Visual				
Yellow Metal se		VISUAI	NONE	NONE	NONE	NONE
	calar	*Visual	NONE	NONE	NONE	NONE
Precipitate se	calar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris se	calar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt se	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance s	calar	*Visual	NORML	NORML	NORML	NORML
Odor se	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water se	calar	*Visual	>0.05	NEG	NEG	NEG
Free Water se	calar	*Visual		NEG	NEG	NEG
FLUID PROPERTIE	S	method	limit/base	current	history1	history2
Visc @ 40°C	St	ASTM D445	46	51.2	48.7	47.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



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

Certificate 12367

Contact/Location: JAKE MILLER - PENGARGA