

### **OIL ANALYSIS REPORT**

# KAESER SM 11 1270956 (S/N 1045)

Compressor

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

#### DIAGNOSIS

#### 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.





NORMAL

		Aug2014 May2	016 Sep2017 Aug2018 Jul2	019 Dec2020 Jul2021 Nov2021 Aug2	022 Jun2023	
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA000926	KCP28605	KCP36901
Sample Date		Client Info		30 Jun 2023	31 Aug 2022	03 Nov 2021
Machine Age	hrs	Client Info		51200	49927	49151
Oil Age	hrs	Client Info		0	747	1371
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	1	3	6
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	18
Barium	ppm	ASTM D5185m	90	8	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	62	39	20
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	4	2	0
Zinc	ppm	ASTM D5185m	0	9	16	18
Sulfur	ppm	ASTM D5185m	23500	23058	17812	16318
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		9	9	4
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.033	0.020	0.011
ppm Water	ppm	ASTM D6304	>500	332.0	202.3	110.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2663	4393	5437
Particles >6µm		ASTM D7647	>1300	688	908	1055
Particles >14µm		ASTM D7647	>80	60	38	<b>4</b> 95
Particles >21µm		ASTM D7647	>20	20	7	<b>A</b> 31
Particles >38µm		ASTM D7647	>4	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13	19/17/12	▲ 17/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

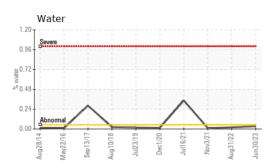
Acid Number (AN) mg Report Id: PENCHATN [WUSCAR] 05899972 (Generated: 07/18/2023 18:55:19) Rev: 1

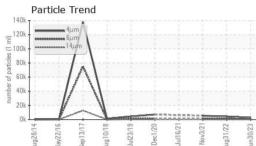
mg KOH/g ASTM D8045 1.0

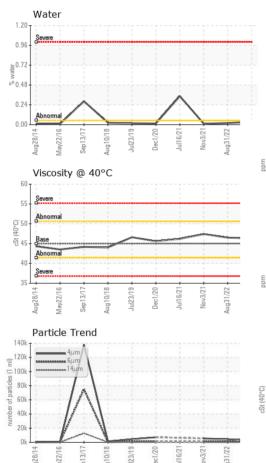
.0 **0.38** 0.38 0.323 Contact/Location: SERVICE MANAGER ? - PENCHATN



## **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	LIGHT	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
Visc @ 40°C	cSt	ASTM D445	45	46.3	46.5	47.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					U.	
Bottom						

ttom

