

## **OIL ANALYSIS REPORT**

#### Machine Id KAESER ASD40ST 4021267 (S/N 1008) Component

Compressor

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

#### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates to AN results.

### Wear

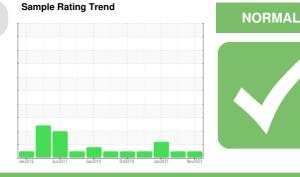
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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



		Jan2016	Jun2017 Jan2019	Oct2019 Jan2021	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA005859	KCPA000302	KCP32583
Sample Date		Client Info		18 Nov 2023	23 Aug 2023	28 Jan 2021
Machine Age	hrs	Client Info		96958	93225	79906
Oil Age	hrs	Client Info		0	0	6000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
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	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	10	9	10
Tin	ppm	ASTM D5185m	>10	0	0	0
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	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	00	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	2	4	0
Calcium	ppm	ASTM D5185m		0	2	0
Phosphorus	ppm	ASTM D5185m	-	4	3	<1
Zinc	ppm	ASTM D5185m		46	70	0
Sulfur	ppm	ASTM D5185m		17208	20905	14630
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m	220	2	1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.007	0.005	0.003
ppm Water	ppm	ASTM D6304	>500	75	52.0	38.8
FLUID CLEANLIN		method	limit/base	current	history1	history2
		ASTM D7647	- mm base	4179	454	5813
Particles >4µm			×1200			
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>1300	748	109 18	<ul><li>▲ 1442</li><li>▲ 123</li></ul>
•		ASTM D7647 ASTM D7647		64 16		▲ 123 ▲ 40
Particles >21µm					5	
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >17/13	1 17/13	0 14/11	0 <b>1</b> 8/14
		( )			14/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.461	0.32	0.337

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

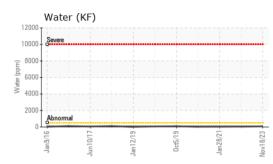
0.461 0.32 0.337

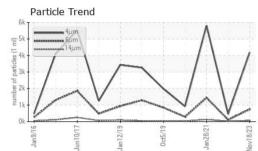
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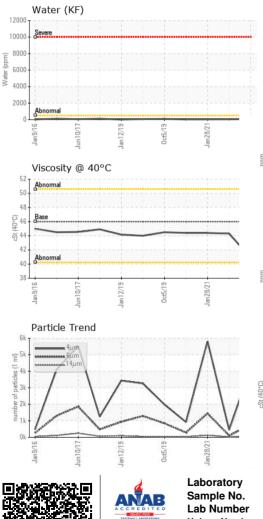
Contact/Location: SERVICE MANAGER ? - 4MILIV



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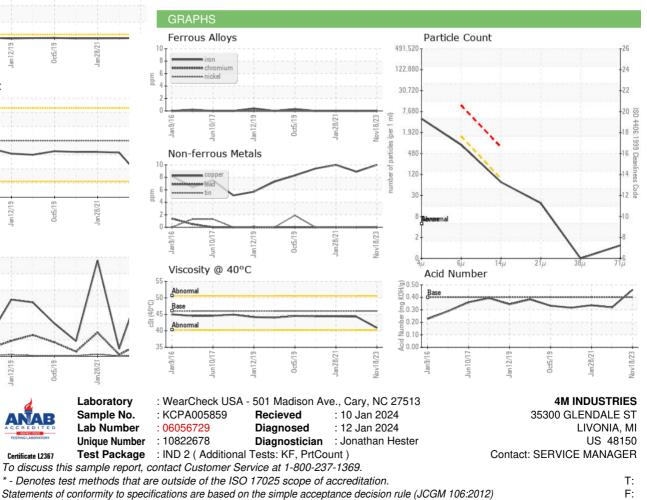






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	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	46	40.9	44.3	44.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•		

Bottom



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