

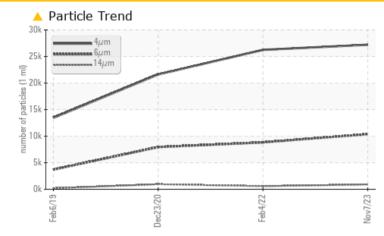
KAESER COMPRESSORS Built for a lifetime."

KAESER SK15 5676499 (S/N 1004)

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL ABNORMAL ABNORMAL Particles >6µm ASTM D7647 >1300 **10372** A 8831 ▲ 7949 Particles >14µm ASTM D7647 >80 903 ▲ 585 **946** Particles >21µm ASTM D7647 >20 217 88 **Oil Cleanliness** ISO 4406 (c) >--/17/13 **A** 22/21/17 ▲ 20/16 ▲ 20/17

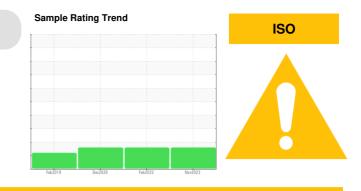
Customer Id: PENMILUS Sample No.: KCPA009415 Lab Number: 06006334 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

04 Feb 2022 Diag: Jonathan Hester

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

23 Dec 2020 Diag: Jonathan Hester

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

06 Feb 2019 Diag: Doug Bogart

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





view report



OIL ANALYSIS REPORT

SAMPLE INFORMATIO

Machine Id KAESER SK15 5676499 (S/N 1004) Component

Compressor Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

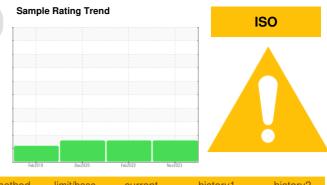
All component wear rates are normal.

Contamination

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

Fluid Condition

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



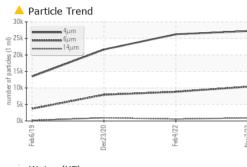
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA009415	KCP35422	KCP27373
Sample Date		Client Info		07 Nov 2023	04 Feb 2022	23 Dec 2020
Machine Age	hrs	Client Info		23053	17438	13004
Oil Age	hrs	Client Info		0	3000	3000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm		>50	0	<1	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		0	2	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m		15	15	19
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	2	<1	0
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	1	11	<1
Zinc	ppm	ASTM D5185m	0	33	23	42
Sulfur	ppm	ASTM D5185m	23500	17259	16766	19767
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25		<1	<1
Sodium	ppm	ASTM D5185m	>20	<1 0	0	<1
	ppm		. 00			
Potassium	ppm	ASTM D5185m	>20	0	0	3
Water	%	ASTM D6304		0.005	0.005	0.007
ppm Water	ppm	ASTM D6304	>500	55.8	56.7	74.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		27211	26248	21626
Particles >6µm		ASTM D7647		<u> </u>	▲ 8831	<u> </u>
Particles >14µm		ASTM D7647	>80	<u> </u>	▲ 585	4 946
Particles >21µm		ASTM D7647		<u> </u>	<u> </u>	<u> </u>
Particles >38µm		ASTM D7647	>4	3	<u> </u>	<u> </u>
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	2 0/16	2 0/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.41	0.457

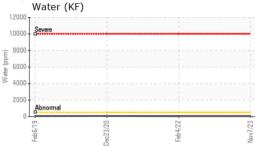
Acid Number (AN) Report Id: PENMILUS [WUSCAR] 06006334 (Generated: 11/15/2023 17:18:33) Rev: 1

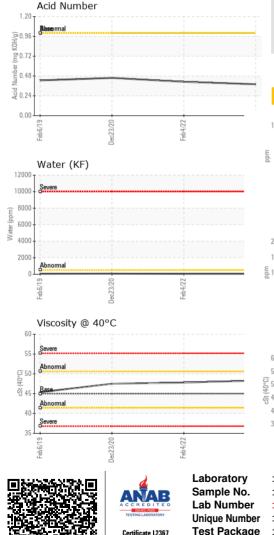
Contact/Location: BRIAN MATTSON - PENMILUS



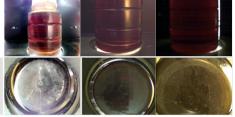
OIL ANALYSIS REPORT



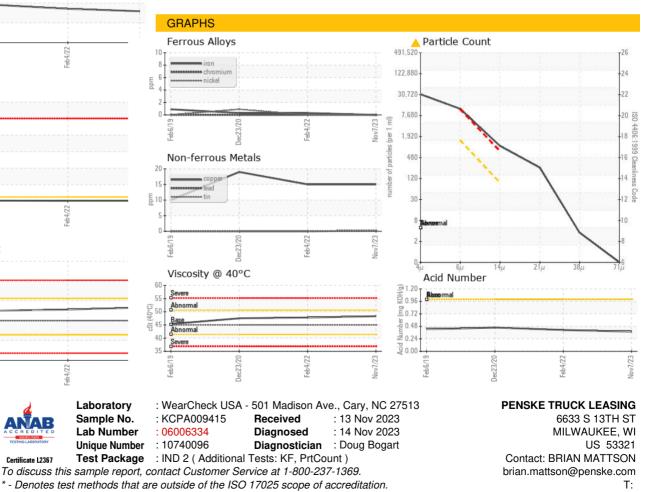




VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	Current	history i	TIIStOLYZ
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	48.3	47.8	47.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a.		



Bottom



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

Contact/Location: BRIAN MATTSON - PENMILUS

F: