

OIL ANALYSIS REPORT

Machine Io KAESER AIR CENTER SX 5 4259156 (S/N 1017) Component

Compressor

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

DIAGNOSIS

Recommendation

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

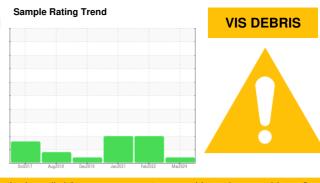
All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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



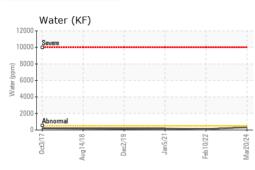
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015934	KCP41003	KCP27212
Sample Date		Client Info		20 Mar 2024	10 Feb 2022	05 Jan 2021
Machine Age	hrs	Client Info		39835	34313	27277
Oil Age	hrs	Client Info		0	7036	6000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel				<1	0	0
	ppm	ASTM D5185m	>3			
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	21	17	1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	<1	29	38
Calcium	ppm	ASTM D5185m		3	0	0
Phosphorus	ppm	ASTM D5185m	0	<1	12	3
Zinc	ppm	ASTM D5185m	0	0	10	0
Sulfur	ppm	ASTM D5185m	23500	19206	18220	16879
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	2	<1
Sodium	ppm	ASTM D5185m		0	13	4
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.05	0.032	0.010	0.016
ppm Water	ppm	ASTM D6304	>500	325	105.9	169.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			30083	9992
Particles >6µm		ASTM D7647	>1300		<u> </u>	<u> </u>
Particles >14µm		ASTM D7647	>80		<u> </u>	A 256
Particles >21µm		ASTM D7647	>20		<u> </u>	 76
Particles >38µm		ASTM D7647	>4		6	<u> </u>
Particles >71µm		ASTM D7647			0	A 3
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 20/15	▲ 19/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.44	0.32	0.338
101.04) Dov. 1	- 0				ana Camilaa Mai	

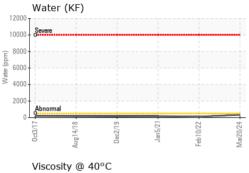
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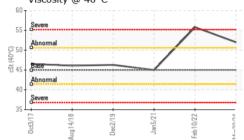
Contact/Location: Service Manager - OLDLEX



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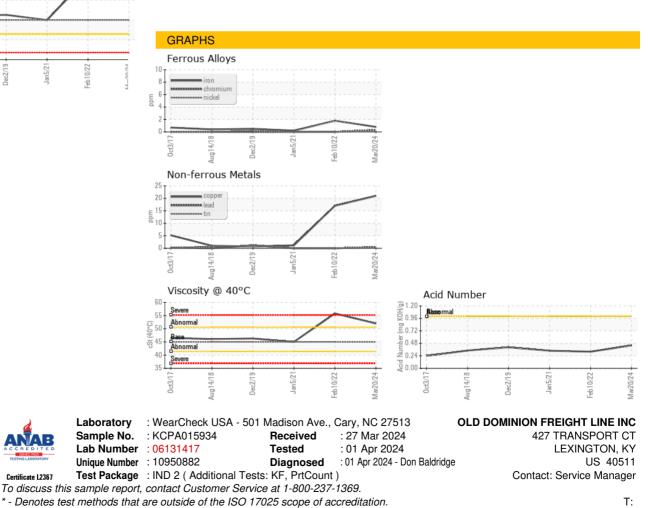






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	52.0	▲ 55.8	45.0
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						





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

F:

Certificate L2367

Laboratory Sample No.

Contact/Location: Service Manager - OLDLEX