

OIL ANALYSIS REPORT

Machine Ic KAESER SM 10 4449147 (S/N 1289) Component

Compressor

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

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

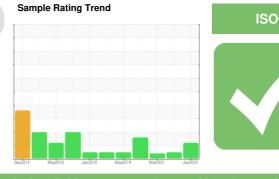
All component wear rates are normal.

Contamination

There is a moderate 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.



		Dec2014	May2016 Jan2018	May2019 Mar2021	Jan2024	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA008858	KCP36294	KCP37466
Sample Date		Client Info		11 Jan 2024	04 Oct 2021	29 Mar 2021
Machine Age	hrs	Client Info		52929	39730	36521
Oil Age	hrs	Client Info		0	6989	3780
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ATTENTION	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	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	<1	0
Aluminum	ppm	ASTM D5185m	>10	1	2	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
	ppm	ASTM D5185m		14	18	6
	ppm	ASTM D5185m	>10	0	0	0
•	ppm	ASTM D5185m			<1	0
	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	<1	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	<1	<1
-	ppm	ASTM D5185m	90	15	14	36
	ppm	ASTM D5185m	2	<1	0	0
	ppm	ASTM D5185m		11	2	0
	ppm	ASTM D5185m		4	38	29
Sulfur	ppm	ASTM D5185m		18244	16524	16879
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		4	4	12
	ppm	ASTM D5185m		1	3	4
	%	ASTM D6304	>0.05	0.006	0.011	0.012
ppm Water	ppm	ASTM D6304	>500	60	116.5	128.2
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4254	1970	
Particles >6µm		ASTM D7647	>1300	1105	470	
Particles >14µm		ASTM D7647	>80	9 2	39	
Particles >21µm		ASTM D7647	>20	2 8	10	
Particles >38µm		ASTM D7647	>4	1	1	
Particlas > 71um			. 0	0	0	

Particles >71µm

Oil Cleanliness

FLUID DEGRADATION

mg KOH/g ASTM D8045 0.4

ASTM D7647 >3

0.30 0.257

0

ISO 4406 (c) >--/17/13 🔺 19/17/14

Contact/Location: PAT KELLER - OLDWHITN

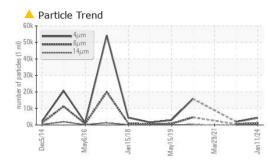
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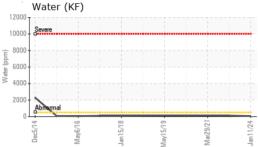
16/12

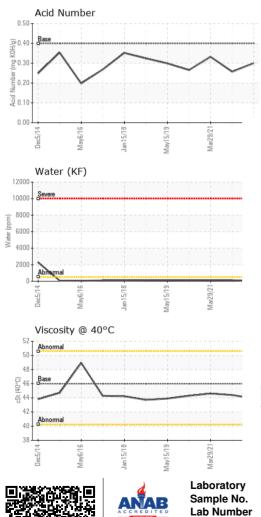
0.332



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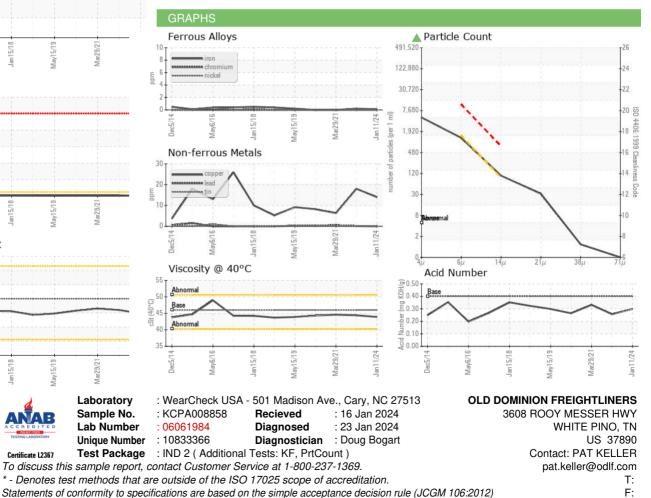






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.91	44.4	44.6
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				a.		
			6			

Bottom



Contact/Location: PAT KELLER - OLDWHITN