

OIL ANALYSIS REPORT

Sample Rating Trend ISO

Machine Id

KAESER AS 20T 4444102 (S/N 1034)

Component Compressor

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

DIAGNOSIS

Recommendation

Oil and 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.

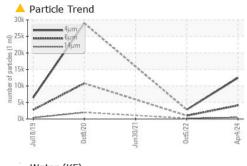
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013627	KCP46017	KCP33591
Sample Date		Client Info		04 Apr 2024	05 Oct 2022	30 Jun 2021
Machine Age	hrs	Client Info		14148	6952	77000
Oil Age	hrs	Client Info		0	3000	3000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>50	0	0	<1
Chromium	ppm		>10	۰ <1	0	0
	ppm	ASTM D5185m				
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	0	2
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m		3	7	7
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				<1
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	0	<1
Barium	ppm	ASTM D5185m	90	0	1	<1
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	<1	<1	0
Calcium	ppm	ASTM D5185m	0	0	0	<1
Phosphorus	ppm	ASTM D5185m	0	0	6	8
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	23500	19925	14217	15769
CONTAMINANTS	ppin	method	limit/base	current		
					history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304		0.006	0.007	▲ 0.184
ppm Water	ppm	ASTM D6304	>500	64	71.8	<u> </u>
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12453	2807	
Particles >6µm		ASTM D7647	>1300	<u> </u>	1009	
Particles >14µm		ASTM D7647	>80	<u> </u>	1 74	
Particles >21µm		ASTM D7647	>20	<u> </u>	<u> </u>	
Particles >38µm		ASTM D7647	>4	7	3	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/16	▲ 19/17/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0 Con	0.50	0.58	0.437

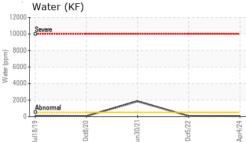
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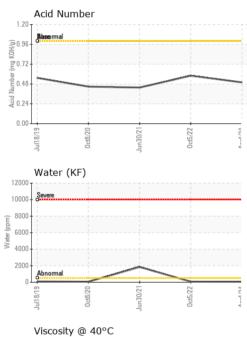
Contact/Location: Service Manager - CARFRESCA

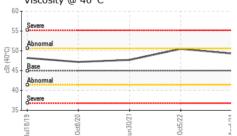


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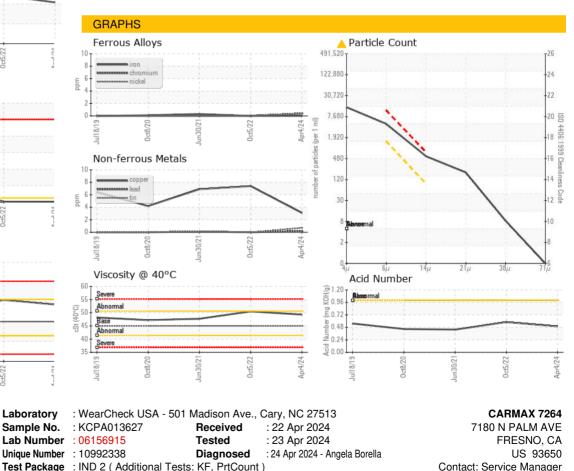






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	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	▲ >10%
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.3	50.5	47.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Laboratory

Contact/Location: Service Manager - CARFRESCA

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