

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 6714297 (S/N 1033)

Component Compressor Fluid

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

Recommendation

Resample at the next service interval to monitor.

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.

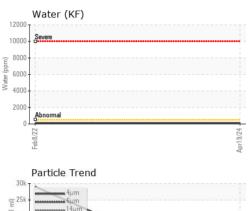
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012517	KCP48653	
Sample Date		Client Info		19 Apr 2024	08 Feb 2022	
Machine Age	hrs	Client Info		7404	3910	
Oil Age	hrs	Client Info		0	1180	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	<1	<1	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	- <1	<1	
Copper	ppm	ASTM D5185m	>50	14	16	
Tin	ppm	ASTM D5185m	>10	<1	0	
Antimony	ppm	ASTM D5185m	- 10		0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium		ASTM D5185m		۰ <1	0	
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	14	18	
Calcium	ppm	ASTM D5185m	0	3	0	
Phosphorus	ppm	ASTM D5185m	0	4	11	
Zinc	ppm	ASTM D5185m	0	74	58	
Sulfur	ppm	ASTM D5185m	23500	20966	17742	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	1	
Sodium	ppm	ASTM D5185m		3	6	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water	%	ASTM D6304	>0.05	0.011	0.012	
ppm Water	ppm	ASTM D6304	>500	112	120.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1633	29029	
Particles >6µm		ASTM D7647	>1300	609	1 3137	
Particles >14µm		ASTM D7647	>80	26	5 30	
Particles >21µm		ASTM D7647	>20	5	1 75	
Particles >38µm		ASTM D7647	>4	0	2	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12	▲ 21/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g		1.0	0.37	0.33	
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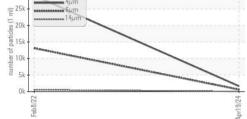
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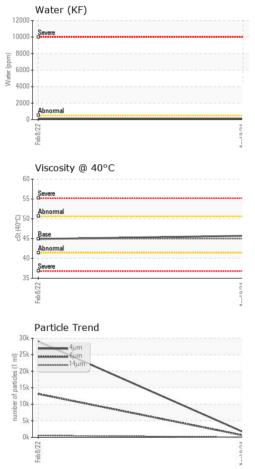
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OIL ANALYSIS REPORT







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			method				history2
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
9/24		scalar	*Visual	NORML		NORML	
Apr19							
	Emulsified Water						
				limit/base			history2
		cSt	ASTM D445	45	45.7	44.9	
							history2
		_0	method				Thotory 2
Apr19/24	Color						no image
	Bottom						no image
	Dottom					KE!	no inago
	GRAPHS						
	Ferrous Alloys				Particle Count		
	iron			491,520			T ²⁶
76	- 6 - newsease chromium			122,880	-		-24
0/0				30.720			-22
	2-						
-	2			7,680			
	2 0 2 2 2 2 2 2 2 2 2 8 9			7,680			
	2 0 7 7 7 8 9			7,680	1111111111111		
	Non-ferrous Meta	als		7,680	11.	X	
		als		7,680	· · · · · · · · · · · · · · · · · · ·		
	Non-ferrous Meta	als		7,680 +2/6 Ludy +2/6 Ludy	, , , , , , , , , , , , , , , , , , ,		
	Non-ferrous Meta	als		7,680	, , , , , , , , , , , , , , , , , , ,		
	Non-ferrous Meta	als		7,680 1,020 1,	, , , , , , , , , , , , , , , , , , ,		
	Non-ferrous Meta	als		7.680 42/6 Ludy 42/6 Ludy 480 1.920 480 1.920 480 3.0 8 8 8 8 8 8 8 8 8 8 8 8 8	, , , , , , , , , , , , , , , , , , ,		
	Non-ferrous Meta	als		7.680 42/6 Ludy 42/6 Ludy 480 1.920 480 1.920 480 3.0 8 8 8 8 8 8 8 8 8 8 8 8 8	, , , , , , , , , , , , , , , , , , ,		
And DA	Non-ferrous Meta	als		7.680 (ie 1.ad) sappined jo aaqumu 300 800 800 800 800 800 800 800 800 800	Bibresemal		-24 -16 -14 -14 -12 -10 -10 -14 -12 -10 -10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14
And the second se	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	
Part and	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	-2: -14 -14 -11 -11 -11 -11 -11 -11 -11 -11
	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	-20 -18 -16 -14 -12 -10 -8 -8 -6
	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	-2(-18 -16 -14 -12 -10 -8 -8
	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	-2(-18 -16 -14 -12 -10 -8 -8
	Non-ferrous Meta			7,680 (im 1 ad) sappined 10 ap 1200 paper 120 300 paper 12	Ribresemal Acid Number	14μ 21μ	-24 -16 -14 -14 -12 -10 -10 -14 -12 -10 -10 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14
	Non-ferrous Meta			7.680 42/6 Ludy 42/6 Ludy 480 1.920 480 1.920 480 3.0 8 8 8 8 8 8 8 8 8 8 8 8 8	Ribresemal Acid Number	14μ 21μ	-2(-18 -16 -14 -12 -10 -8 -8
	April9/24	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys 10 8	Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar Free Water scalar SAMPLE IMAGES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom Bottom	Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Odor scalar *Visual Odor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys 10 8 10 10 10 10 10 10 10 10 10 10	Silt scalar *Visual NONE Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.05 Free Water scalar *Visual >0.05 Free Water scalar *Visual Visual FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D445 45 SAMPLE IMAGES method limit/base Color Bottom GRAPHS Ferrous Alloys 491.520 122.880	Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG Free Water scalar *Visual NORML NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 45 45.7 SAMPLE IMAGES method limit/base current Color Imathematical State Imathematical State Imathematical State Bottom Imathematical State Imathematical State Imathematical State Imathematical State Imathematical State Imathematical State Imathematical State Imathemathematical State Imathematical State<	Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirit scalar *Visual NONE NONE NONE Appearance scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Odor scalar *Visual >0.05 NEG NEG Free Water scalar *Visual >0.05 NEG NEG Free Water scalar *Visual >0.05 NEG NEG Visc @ 40°C cSt ASTM D445 45 45.7 44.9 SAMPLE IMAGES method limit/base current history1 Color Imathed Imathed Imathed Imathed Imathed GRAPHS Ferrous Alloys Particle Count 122.880 </td

* - 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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