

OIL ANALYSIS REPORT

ISO

Sample Rating Trend

Machine Id

KAESER ASD 25 4930008 (S/N 1010)

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

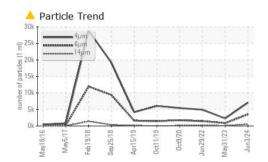
Fluid Condition

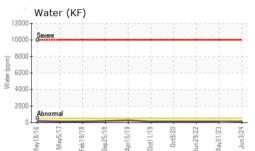
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

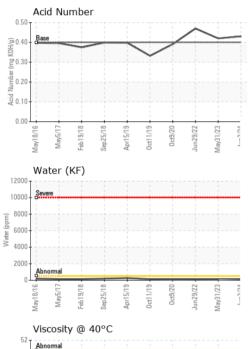
Sample Number	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC128589	KC101345	KC95231
Sample Date		Client Info		03 Jun 2024	31 May 2023	29 Jun 2022
Machine Age	hrs	Client Info		19504	16904	14627
Oil Age	hrs	Client Info		3400	2277	3615
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	18	20	15
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m				
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	0
Barium	ppm	ASTM D5185m	90	0	0	4
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	14	14	9
Calcium	ppm	ASTM D5185m		0	0	
					U	2
				0	4	_
Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		0 111		2 11 175
Phosphorus	ppm ppm	ASTM D5185m	_ limit/base	-	4	11
Phosphorus Zinc CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	111	4 172	11 175
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m method	limit/base	111 current	4 172 history1	11 175 history2
Phosphorus Zinc CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	111 current 1	4 172 history1 2	11 175 history2 3
Phosphorus Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >25 >20	111 current 1 2	4 172 history1 2 4	11 175 history2 3 <1
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20 >0.05	111 current 1 2 2	4 172 history1 2 4 2	11 175 history2 3 <1 1
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	limit/base >25 >20 >0.05	111 current 1 2 2 0.014	4 172 history1 2 4 2 0.007	11 175 history2 3 <1 1 0.010
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base	111 current 1 2 2 0.014 144 current 7061	4 172 history1 2 4 2 0.007 78.4	11 175 history2 3 <1 1 0.010 106.4
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	limit/base >25 >20 >0.05 >500 limit/base	111 current 1 2 2 0.014 144 current	4 172 history1 2 4 2 0.007 78.4 history1	11 175 history2 3 <1 1 0.010 106.4 history2
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base	111 current 1 2 2 0.014 144 current 7061	4 172 history1 2 4 2 0.007 78.4 history1 2290	11 175 history2 3 <1 1 0.010 106.4 history2 4929
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80	111 current 1 2 2 0.014 144 current 7061 ▲ 3545	4 172 history1 2 4 2 0.007 78.4 history1 2290 855	11 175 history2 3 <1 1 0.010 106.4 history2 4929 1476
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80	111 current 1 2 2 0.014 144 current 7061 ▲ 3545 ▲ 523	4 172 history1 2 4 2 0.007 78.4 history1 2290 855 77	11 175 history2 3 <1 1 0.010 106.4 history2 4929 1476 125
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	111 current 1 2 2 0.014 144 current 7061 ▲ 3545 ▲ 523 ▲ 114	4 172 history1 2 4 2 0.007 78.4 history1 2290 855 77 21	11 175 history2 3 <1 1 0.010 106.4 history2 4929 1476 125 35
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	111 current 1 2 2 0.014 144 current 7061 ▲ 3545 ▲ 523 ▲ 114 1	4 172 history1 2 4 2 0.007 78.4 history1 2290 855 77 21 1	- 11 175 history2 3 <1 1 0.010 106.4 history2 4929 1476 125 35 1
Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm % ppm VESS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base >1300 >80 >20 >4 >3	111 current 1 2 2 0.014 144 current 7061 ▲ 3545 ▲ 523 ▲ 114 1 0	4 172 history1 2 4 2 0.007 78.4 history1 2290 855 77 21 1 0	11 175 history2 3 <1 1 0.010 106.4 history2 4929 1476 125 35 1 0

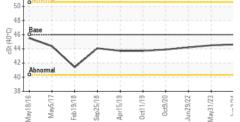


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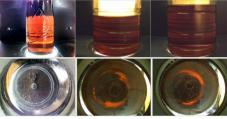




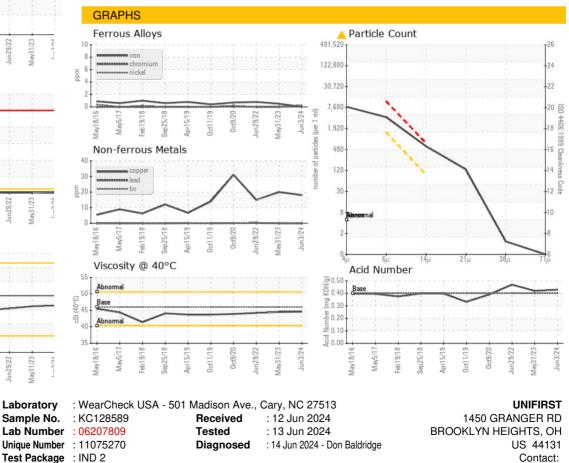


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	44.5	44.2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



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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