

OIL ANALYSIS REPORT

KAESER DSD250 6012336 (S/N 1046)

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

Machine Id

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 silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

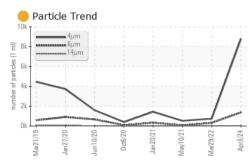
Sample Date Client Info 03 Apr 2024 29 Mar 2022 10 May 2023 Machine Age hrs Client Info 25516 16994 16183 Oil Age hrs Client Info 0 5465 4500 Sample Status Client Info N/A Changed Not Changd WEAR METALS method Imitbase current history1 history2 Iron ppm ASTM 05185m >50 0 <1 <1 Okromium ppm ASTM 05185m >3 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Silver ppm ASTM 05185m >10 0 0 0 Copper ppm ASTM 05185m >10 0 0 0 Astm 05185m >10 0 0 0 0 0 Astm 05185m >10 0 0 0 0 0 Astm 05185m	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 25516 16994 16183 Oil Age hrs Client Info 0 5465 4500 Oil Changed Client Info N/A Changed Not Changed Sample Status Image Current Nistory1 Not Changed WEAR METALS method Imit/base current Nistory1 Not Changed Nickel ppm ASTM D5185m >50 0 <1	Sample Number		Client Info		KC06141338	KC92159	KC90088
Oil Age Inrs Client Info 0 5465 4500 Oil Changed Client Info NA Changed Not Changed Sample Status method imil/base current history1 history2 Iron ppm ASTM D5185m >50 0 <1	Sample Date		Client Info		03 Apr 2024	29 Mar 2022	10 May 2021
Oil Changed Sample Status Client Info N/A Changed ATTENTION NorMAL NorMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >50 0 <1	Machine Age	hrs	Client Info		25516	16994	16183
Sample Status ATTENTION NORMAL NORMAL WEAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >50 0 <1	Oil Age	hrs	Client Info		0	5465	4500
WEAR METALS method limit/base current history1 history2 Knomium ppm ASTM D5185m >50 0 <1	Oil Changed		Client Info		N/A	Changed	Not Changd
Iron ppm ASTM D5185m >50 0 <1 <1 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Sample Status				ATTENTION	NORMAL	NORMAL
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Nickel ppm ASTM D5185m >3 0 0 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >10 0 <1	Iron	ppm	ASTM D5185m	>50	0	<1	<1
Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1	Nickel	ppm	ASTM D5185m	>3	0	0	0
Aluminum ppm ASTM D5185m >10 0 <1 0 Lead ppm ASTM D5185m >10 0 0 <1	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >10 0 0 <1 Copper ppm ASTM D5185m >50 6 5 6 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 <1	Silver	ppm	ASTM D5185m	>2	0	0	0
Copper ppm ASTM D5185m >50 6 5 6 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Zalcium ppm ASTM D5185m 2 0 4 0 Phosphorus ppm ASTM D5185m 2 0 3 2 Sodium ppm ASTM D5185m 20 3 2	Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 16 C Magnesium ppm ASTM D5185m 0 0 3 16 Calcium ppm ASTM D5185m 0 4 0 0 Zinc ppm ASTM D5185m 0 0 0 0 0 Zinc ppm ASTM D5185m 20 0 11 10 Potassium ppm ASTM D5185m 20 0	Lead	ppm	ASTM D5185m	>10	0	0	<1
Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magnese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 2 0 4 0 Silicon ppm ASTM D5185m 2 0 3 2 Sodium ppm ASTM D5185m >20 0 11 1 10	Copper	ppm	ASTM D5185m	>50	6	5	6
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ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 <1 <1 Barium ppm ASTM D5185m 90 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 90 0 3 16 Calcium ppm ASTM D5185m 90 0 4 0 Phosphorus ppm ASTM D5185m 2 0 4 0 Zinc ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 3 2 Sodium ppm ASTM D5185m >20 0 11 2 Water % ASTM D5185m >20 0 0.016 ppm ppm ASTM D5185m >20 0 0.030 0.016 16.8	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 90 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2
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Phosphorus ppm ASTM D5185m 0 4 0 Zinc ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 3 2 Sodium ppm ASTM D5185m >25 0 3 2 Sodium ppm ASTM D5185m >20 0 11 10 Potassium ppm ASTM D5185m >20 0 11 2 Water % ASTM D6304 >0.05 0.005 0.030 0.016 ppm Water ppm ASTM D647 8790 734 522 Particles >4µm ASTM D7647 8790 734 522 Particles >6µm ASTM D7647 >80 25 15 5 Particles >1µm ASTM D7647 >20 6 3 2 Particles >21µm A	Magnesium		ASTM D5185m	90	0	3	16
Zinc ppm ASTM D5185m 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 3 2 Sodium ppm ASTM D5185m >25 0 3 2 Sodium ppm ASTM D5185m <1	Calcium	ppm	ASTM D5185m	2	0	4	0
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ppm Water ppm ASTM D6304 >500 55 305.9 161.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 8790 734 522 Particles >6µm ASTM D7647 >1300 1366 315 65 Particles >14µm ASTM D7647 >80 25 15 5 Particles >14µm ASTM D7647 >20 6 3 2 Particles >21µm ASTM D7647 >20 6 3 2 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) 17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Potassium	ppm	ASTM D5185m	>20	0	11	2
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 8790 734 522 Particles >6μm ASTM D7647 >1300 1366 315 65 Particles >6μm ASTM D7647 >80 25 15 5 Particles >14μm ASTM D7647 >20 6 3 2 Particles >21μm ASTM D7647 >20 6 3 2 Particles >38μm ASTM D7647 >4 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.05	0.005	0.030	0.016
Particles >4µm ASTM D7647 8790 734 522 Particles >6µm ASTM D7647 >1300 1366 315 65 Particles >14µm ASTM D7647 >80 25 15 5 Particles >21µm ASTM D7647 >20 6 3 2 Particles >21µm ASTM D7647 >20 6 3 2 Particles >38µm ASTM D7647 >4 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	ppm Water	ppm	ASTM D6304	>500	55	305.9	161.8
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Particles >21μm ASTM D7647 >20 6 3 2 Particles >38μm ASTM D7647 >4 0 0 0 Particles >38μm ASTM D7647 >4 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1366	315	65
Particles >38μm ASTM D7647 >4 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	25	15	5
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	6	3	2
Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	0	0	0
Oil Cleanliness ISO 4406 (c) >17/13 18/12 15/11 13/10 FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>17/13	18/12	15/11	13/10
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.32 0.25 0.340	FLUID DEGRADA		method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	0.25	0.340

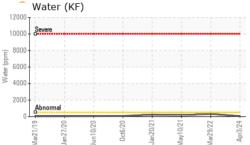
Sample Rating Trend

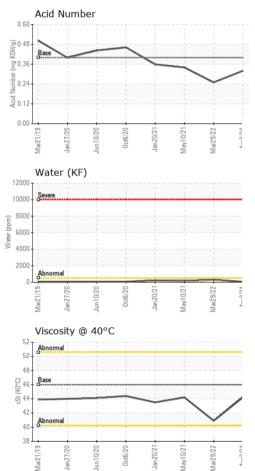
ISO



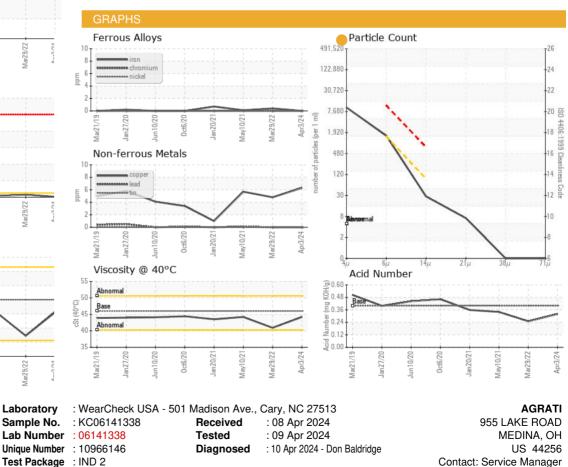
OIL ANALYSIS REPORT

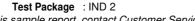






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	44.2	40.9	44.2
SAMPLE IMAGES	;	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)

T: F:

Certificate 12367

Contact/Location: Service Manager - AGRMED Page 2 of 2