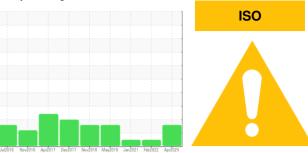


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SFC 22ST 5317538 (S/N 1002)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

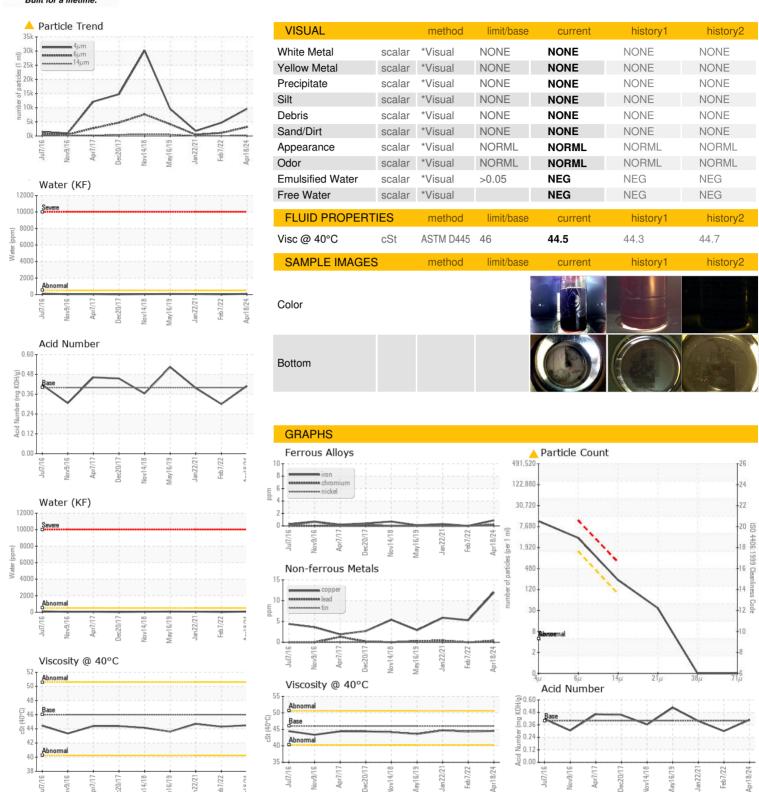
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016408	KCP48603	KCP28018
Sample Date		Client Info		18 Apr 2024	07 Feb 2022	22 Jan 2021
Machine Age	hrs	Client Info		43103	39022	31123
Oil Age	hrs	Client Info		4000	3000	3000
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	2	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	12	5	6
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m	90	1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
			0.0	10	0	19
Magnesium	ppm	ASTM D5185m	90	10	3	19
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	2	3	0	0
				_		
Calcium	ppm	ASTM D5185m		3	0	0
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		3	0 12	0 <1
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		3 3 15	0 12 <1	0 <1 32
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 limit/base	3 3 15 19067	0 12 <1 14072	0 <1 32 15547
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 limit/base	3 3 15 19067 current	0 12 <1 14072 history1	0 <1 32 15547 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	2 limit/base	3 3 15 19067 current <1	0 12 <1 14072 history1	0 <1 32 15547 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >25 >20	3 3 15 19067 current <1 4	0 12 <1 14072 history1 <1 3	0 <1 32 15547 history2 <1 23
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	3 3 15 19067 current <1 4 2	0 12 <1 14072 history1 <1 3 <1	0 <1 32 15547 history2 <1 23 0
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	2 limit/base >25 >20 >0.05	3 3 15 19067 current <1 4 2 0.008	0 12 <1 14072 history1 <1 3 <1 0.003	0 <1 32 15547 history2 <1 23 0 0.006
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	limit/base >25 >20 >0.05 >500	3 3 15 19067 current <1 4 2 0.008 88	0 12 <1 14072 history1 <1 3 <1 0.003 35.5	0 <1 32 15547 history2 <1 23 0 0.006 69.3
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	limit/base >25 >20 >0.05 >500 limit/base	3 3 15 19067 current <1 4 2 0.008 88 current	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304 ASTM D6304	limit/base >25 >20 >0.05 >500 limit/base	3 3 15 19067 current <1 4 2 0.008 88 current 9581	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1 4691	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2 1765
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	2 limit/base >25	3 3 15 19067 current <1 4 2 0.008 88 current 9581 ▲ 3173	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1 4691 1061	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2 1765 456
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	2 limit/base >25 >20 >0.05 >500 limit/base >1300 >80	3 3 15 19067 current <1 4 2 0.008 88 current 9581 ▲ 3173 ▲ 198	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1 4691 1061 52	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2 1765 456 36
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	2 limit/base >25	3 3 15 19067 current <1 4 2 0.008 88 current 9581 ▲ 3173 ▲ 198 ③ 31	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1 4691 1061 52 7	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2 1765 456 36 9
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	2 limit/base >25	3 3 15 19067 current <1 4 2 0.008 88 current 9581 3173 198 31 0	0 12 <1 14072 history1 <1 3 <1 0.003 35.5 history1 4691 1061 52 7 0	0 <1 32 15547 history2 <1 23 0 0.006 69.3 history2 1765 456 36 9 0



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06158478

: KCPA016408 Received **Tested** Unique Number : 10993901

: 25 Apr 2024 Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 25 Apr 2024 - Angela Borella

: 23 Apr 2024

US 53037 Contact: MAINTENANCE maintenance@jdlaserinc.com T:

W209N17145 INDUSTRIAL DR

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

Report Id: JDLJAC [WUSCAR] 06158478 (Generated: 04/25/2024 18:04:31) Rev: 1

Contact/Location: MAINTENANCE ? - JDLJAC

F:

JD LASER

JACKSON, WI