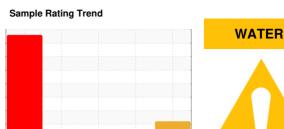


OIL ANALYSIS REPORT



Machine Id

KAESER SM 15 2712688 (S/N 1002)

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016972	KCP55568	KCP43392
Sample Date		Client Info		28 Mar 2024	10 Feb 2023	09 Nov 2021
Machine Age	hrs	Client Info		32698	32042	27359
Oil Age	hrs	Client Info		3200	4683	2794
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>50	3	4	2
Tin	ppm	ASTM D5185m	>10	1	0	0
Antimony	ppm	ASTM D5185m				0
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
Barium	ppm	ASTM D5185m	90	11	7	2
Molybdenum	ppm	ASTM D5185m	50	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	53	56	64
Calcium	ppm	ASTM D5185m		5	2	0
Phosphorus	ppm	ASTM D5185m	2	2	0	3
Zinc	ppm	ASTM D5185m		<1	12	8
Sulfur	ppm	ASTM D5185m		23523	20516	16438
			11 11 11			
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	<1	0
Sodium	ppm	ASTM D5185m	00	9	13	0
Potassium	ppm	ASTM D5185m	>20	5	8	7
Water	%	ASTM D6304		▲ 0.322	0.015	0.027
ppm Water	ppm	ASTM D6304		A 3218	154.4	275.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	1000	1583	15799	13960
Particles >6µm		ASTM D7647		863	▲ 3693	▲ 3810
Particles >14µm		ASTM D7647	>80	147	▲ 169	▲ 294
Particles >21µm		ASTM D7647		4 9	<u>41</u>	<u> </u>
Particles >38µm		ASTM D7647	>4	8	2	4
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>17/13	17/14	▲ 19/15	▲ 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35		0.396

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Contact/Location: SERVICE MANAGER - PENPOP



OIL ANALYSIS REPORT

scalar

scalar

scalar

method

*Visual

*Visual

*Visua

limit/base

NONE

NONE

NONE

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

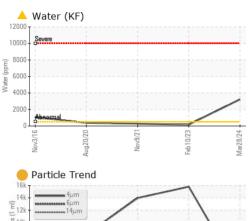
NORML

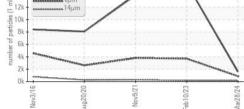
curren

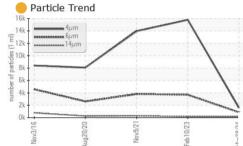
0.2%

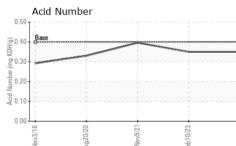
NEG

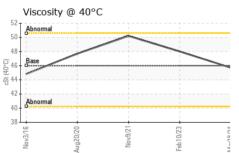
45.7

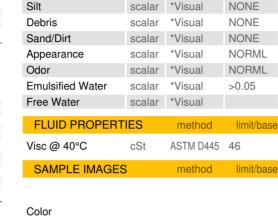


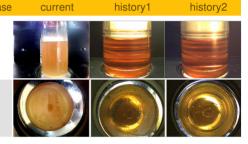












history1

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history

NEG

NEG

48.0

history2

NONE

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history2

NEG

NEG

50.2

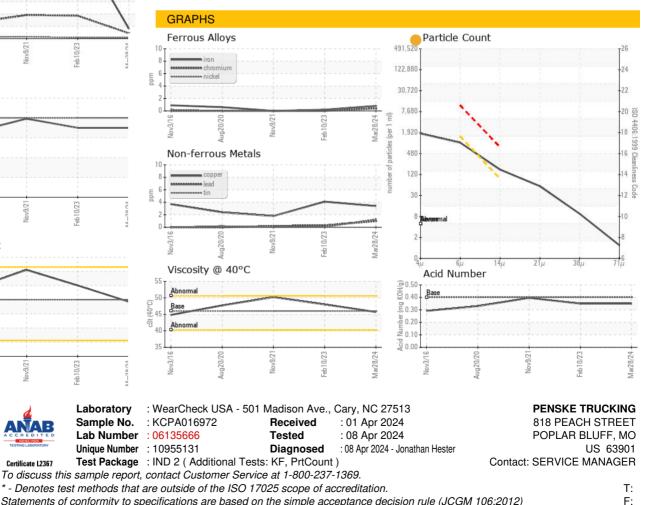
Bottom

VISUAL

White Metal

Yellow Metal

Precipitate



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: SERVICE MANAGER - PENPOP

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