

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

KAESER SM 10 6276062 (S/N 1124)

Component Compressor Fluid

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

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 moderate 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.

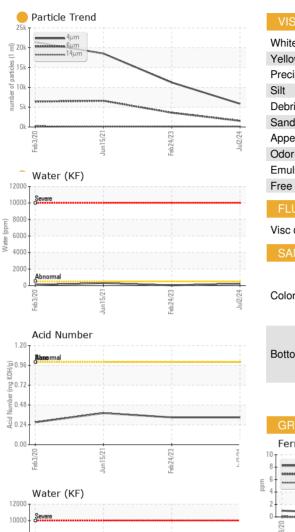
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA020860	KCP54613	KCP32865
Sample Date		Client Info		02 Jul 2024	24 Feb 2023	15 Jun 2021
Machine Age	hrs	Client Info		7733	6199	3591
Oil Age	hrs	Client Info		1534	2608	3591
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	3	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	14
Barium	ppm	ASTM D5185m	90	8	9	10
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	66	53	74
Calcium	ppm	ASTM D5185m	0	0	<1	1
Phosphorus	ppm	ASTM D5185m	0	0	3	4
Zinc	ppm	ASTM D5185m	0	0	8	2
Sulfur	ppm	ASTM D5185m	23500	22911	18078	16622
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		15	15	20
Potassium	ppm	ASTM D5185m	>20	2	4	2
Water	%	ASTM D6304	>0.05	0.022	0.003	0.029
ppm Water	ppm	ASTM D6304	>500	222	34.1	294.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5866	11227	18531
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1565	<u> </u>	▲ 6607
Particles >14µm		ASTM D7647	>80	<mark> </mark> 102	1 74	99
Particles >21µm		ASTM D7647	>20	<mark> </mark> 24	A 39	8
Particles >38µm		ASTM D7647	>4	1	2	0
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	e 20/18/14	1 /19/15	▲ 20/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.33	0.33	0.382

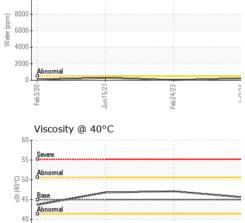
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Contact/Location: Service Manager - COLGOLCOL



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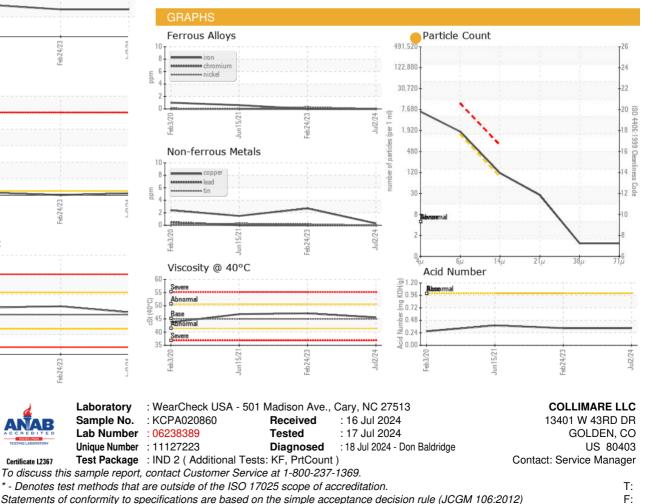
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	45.6	47.1	46.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



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

Certificate 12367

Feb24/23

Contact/Location: Service Manager - COLGOLCOL