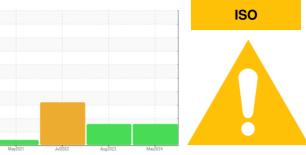


OIL ANALYSIS REPORT

SAMPLE INCODMATION

Sample Rating Trend



Machine Id

KAESER 6892099

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

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.

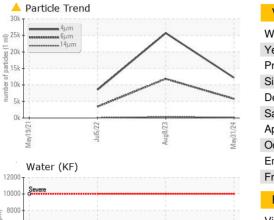
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA017920	KCPA002697	KCP51286	
Sample Date		Client Info		31 May 2024	08 Aug 2023	05 Jul 2022	
Machine Age	hrs	Client Info		7151	3966	1151	
Oil Age	hrs	Client Info		3358	0	397	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	2	3	8	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	7	4	
Lead	ppm	ASTM D5185m	>10	0	0	0	
Copper	ppm	ASTM D5185m		4	6	1	
Tin	ppm	ASTM D5185m	>10	0	<1	<1	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		0	<1	3	
Calcium	ppm	ASTM D5185m		0	0	0	
Phosphorus	ppm	ASTM D5185m	500	340	345	370	
Zinc	ppm	ASTM D5185m		245	342	195	
Sulfur	ppm	ASTM D5185m		1793	2078	2786	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1	
Sodium	ppm	ASTM D5185m	- 10	2	3	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	1	
Water	%	ASTM D510301		0.003	0.003	▲ 0.284	
ppm Water	ppm	ASTM D6304		32	30.1	▲ 2844	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		12196	25709	8521	
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 11851	▲ 3448	
Particles >14µm		ASTM D7647	>80	▲ 169	▲ 340	70	
Particles >21µm		ASTM D7647		<u>^</u> 26	<u>▲</u> 50	10	
Particles >38µm		ASTM D7647	>4	2	1	1	
Particles >71µm		ASTM D7647		0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	21/20/15	A 22/21/16	▲ 20/19/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.79	0.68	0.77	
:54:17) Rev: 1	ing non ig	70 FW D0043	1.0	Contact/Location: Service Manager - HALMIN			

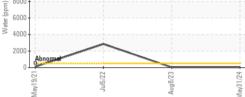
Report Id: HALMIN [WUSCAR] 06205414 (Generated: 06/14/2024 07:54:17) Rev: 1

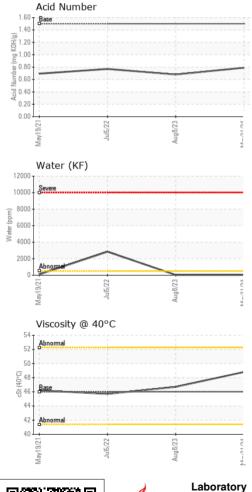
Contact/Location: Service Manager - HALMIN



OIL ANALYSIS REPORT

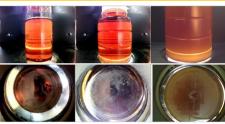




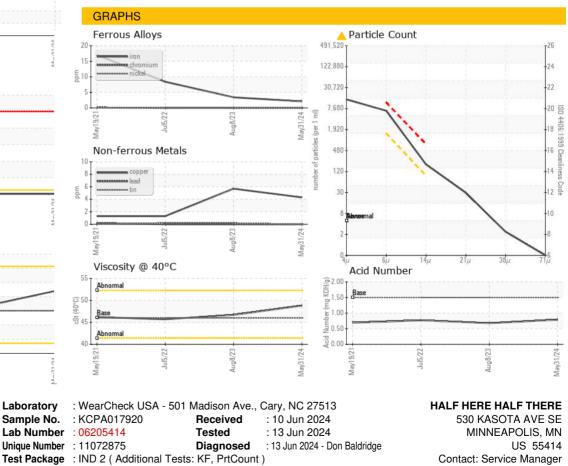


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	48.8	46.7	45.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

00101



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)

Report Id: HALMIN [WUSCAR] 06205414 (Generated: 06/14/2024 07:54:17) Rev: 1

Certificate 12367

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

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