

OIL ANALYSIS REPORT



current

history1

history2

6754697 (S/N 1135) Component

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

DIAGNOSIS

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 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.

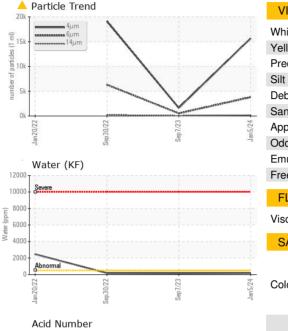
SAMPLE INFORM		method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		KCPA011260	KCPA003064	KCP47242D
Sample Date		Client Info		05 Jan 2024	07 Sep 2023	30 Sep 2022
Machine Age	hrs	Client Info		5012	4765	3058
Oil Age	hrs	Client Info		0	0	3058
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	3
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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		6	6	14
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				
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
Barium	ppm	ASTM D5185m	90	62	0	0
Molybdenum	ppm	ASTM D5185m	00	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	76	26	13
Calcium	ppm	ASTM D5185m		2	0	0
Phosphorus	ppm	ASTM D5185m	L	4	0	2
Zinc	ppm	ASTM D5185m		0	12	30
Sulfur	ppm	ASTM D5185m		18520	17873	20984
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	1
Sodium	ppm	ASTM D5185m		6	11	5
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	0.018	0.014	0.017
ppm Water	ppm	ASTM D6304		190	144.1	176.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		15678	1623	19124
Particles >6µm		ASTM D7647	>1300	<u> </u>	532	▲ 6306
Particles >14µm		ASTM D7647	>80	<u> </u>	51	2 27
Particles >21µm		ASTM D7647	>20	<u> </u>	12	4 4
Particles >38µm		ASTM D7647	>4	2	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/15	18/16/13	1 /20/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.25	0.19
-51-09) Dov: 1				Contact/Location		

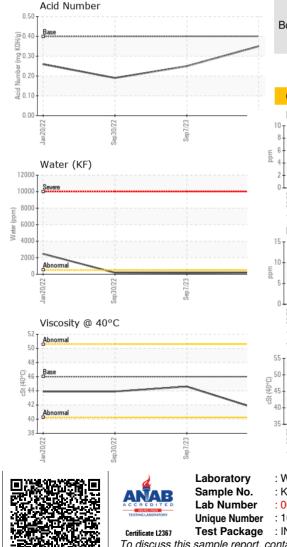
Report Id: MACSTE [WUSCAR] 06056707 (Generated: 01/11/2024 15:51:08) Rev: 1

Contact/Location: JAMIE JOHNSON - MACSTE



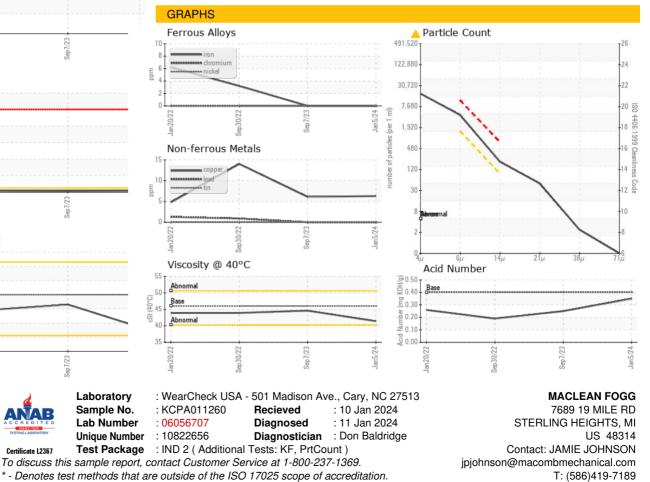
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	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	41.4	44.6	43.9
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Bottom



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

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