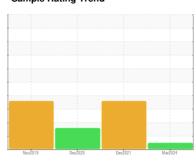


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

6604235 (S/N 1079)

Compressor

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

NONWAL

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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		KCPA013871	KCP43117	KCP34470
Sample Date		Client Info		20 Mar 2024	21 Dec 2021	04 Dec 2020
Machine Age	hrs	Client Info		3763	1509	928
Oil Age	hrs	Client Info		243	581	463
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	8	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	<1	0
Lead	ppm	ASTM D5185m	>10	<1	<1	1
Copper	ppm	ASTM D5185m	>50	5	23	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m	>10		0	0
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		۰ <1	0	0
Cadmium	ppm	MOUNT DO TOO!!!		<1	U	U
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	17	<1	4
Calcium	ppm	ASTM D5185m	0	4	0	<1
Phosphorus	ppm	ASTM D5185m	0	<1	6	5
Zinc	ppm	ASTM D5185m	0	58	60	57
Sulfur	ppm	ASTM D5185m	23500	23208	18352	17330
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	4	<1
Sodium	ppm	ASTM D5185m		8	<1	3
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.006	△ 0.261	△ 0.099
ppm Water	ppm	ASTM D6304	>500	70	<u>^</u> 2610	△ 990
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		4913		693
Particles >6µm		ASTM D7647	>1300	1244		378
Particles >14μm		ASTM D7647	>80	70		64
Particles >21µm		ASTM D7647	>20	19		22
Particles >38µm		ASTM D7647	>4	1		3
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/17/13		16/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

0.23



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: KCPA013871 Lab Number : 06148095 Unique Number : 10978173

Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024

: 17 Apr 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: KF, PrtCount)

Contact: BILL W BILLW@BEERDBREWING.COM

225 LEONARD DR, UNIT 1B

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: BEEGRO [WUSCAR] 06148095 (Generated: 04/17/2024 20:50:14) Rev: 1

Contact/Location: BILL W - BEEGRO

GROTON, CT

US 06340

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