

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

KAESER AS20T 4946506 (S/N 1162)

Component Compressor Fluid

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

Recommendation

Oil and 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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

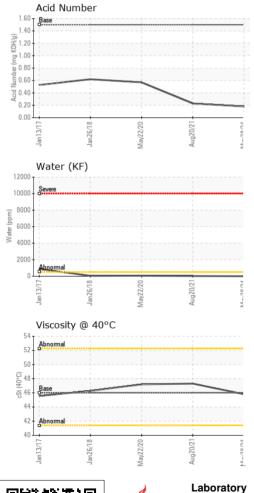
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA017301	KCP36943	KCP25664	
Sample Date		Client Info		28 May 2024	20 Aug 2021	22 May 2020	
Machine Age	hrs	Client Info		6329	31647	22808	
Oil Age	hrs	Client Info		0	8839	4886	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				ATTENTION	ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<1	<1	8	
Chromium	ppm	ASTM D5185m	>10	<1	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	2	8	
Lead	ppm	ASTM D5185m	>10	0	0	<1	
Copper	ppm	ASTM D5185m	>50	22	16	29	
Tin	ppm	ASTM D5185m	>10	<1	4	<1	
Antimony	ppm	ASTM D5185m	-		0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	PPIII		lingit/le g	-			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	<1	<1	
Barium	ppm	ASTM D5185m		0	0	<1	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m		<1	0	<1	
Calcium	ppm	ASTM D5185m		0	0	<1	
Phosphorus	ppm	ASTM D5185m	500	65	94	231	
Zinc	ppm	ASTM D5185m		65	98	312	
Sulfur	ppm	ASTM D5185m		1368	697	1115	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1	
Sodium	ppm	ASTM D5185m		0	<1	3	
Potassium	ppm	ASTM D5185m		1	6	<1	
Water	%	ASTM D6304	>0.05	0.00	0.003	0.006	
ppm Water	ppm	ASTM D6304	>500	0	25.6	63.3	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		4372	14388	70186	
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1648	2282	A 8446	
Particles >14µm		ASTM D7647	>80	<mark> </mark> 149	63	🔺 159	
Particles >21µm		ASTM D7647	>20	<mark>)</mark> 32	15	A 37	
Particles >38µm		ASTM D7647	>4	2	0	2	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	— 19/18/14	18/13	▲ 20/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN) :58:45) Rev: 1	mg KOH/g	ASTM D8045	1.5	0.18 0.229 0.569 Contact/Location: GARRY - REABLATX			

Report Id: REABLATX [WUSCAR] 06203408 (Generated: 06/11/2024 18:58:45) Rev: 1

Contact/Location: GARRY - REABLATX



Particle Trend 80 70 μm /1 ml) 60k 14µm 950k 30k 20k 10 0 Am 27/17 Jan1 Water (KF) 12000 10000 800 Water (ppm) 6000 400 200 Abnorma Aug20/21 00/22/m , LE



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	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	45.8	47.3	47.2
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color				a.		
Bottom						

GRAPHS Ferrous Alloys Particle Count 491.52 122,880 30,720 7,680 20 2 JULCON Mav28/24 4406 (per 1 1,920 an 1999 Cle Non-ferrous Metals 480 6 40 120 30 E 20 30 10 0 Jan 13/17 av22/20 ug20/21 Aav78/74 Viscosity @ 40°C Acid Number 55 (B/HOX 1.50 1.00 1.00 Abnorma Bas () 50 () 15 J 0.50 الج Abnorma 0.00 G 40 May28/24 -Jan 13/17 Vlav22/20 vug20/21 Mav22/20 Jan 26/18 /ug20/21 Jan 26/18 Jan 13/17 028/24 **REAL ALE BREWING COMPANY** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KCPA017301 Received : 07 Jun 2024 231 SAN SABA CT Lab Number : 06203408 Tested : 11 Jun 2024 BLANCO, TX Unique Number : 11070869 Diagnosed : 11 Jun 2024 - Angela Borella US 78606 Contact: GARRY

Certificate 12367Test Package: IND 2 (Additional Tests: KF, PrtCount)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: REABLATX [WUSCAR] 06203408 (Generated: 06/11/2024 18:58:45) Rev: 1

Contact/Location: GARRY - REABLATX

garry@realalebrewing.com

Т:

F: