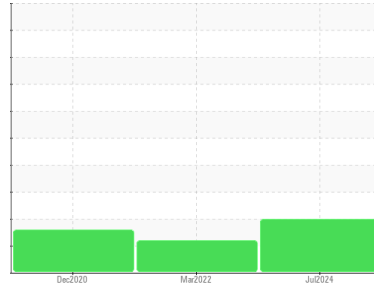




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
7174164 (S/N 1263)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA014273	KCP43663	KCP34408
Sample Date	Client Info			11 Jul 2024	16 Mar 2022	21 Dec 2020
Machine Age	hrs	Client Info		8803	4877	1945
Oil Age	hrs	Client Info		3000	2000	1000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	10	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	11	8	3
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

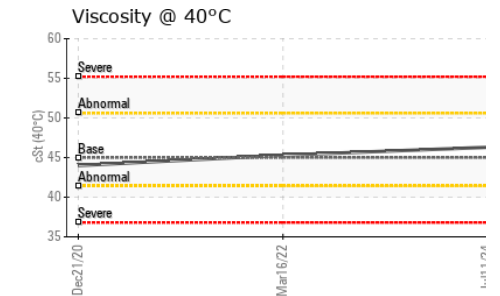
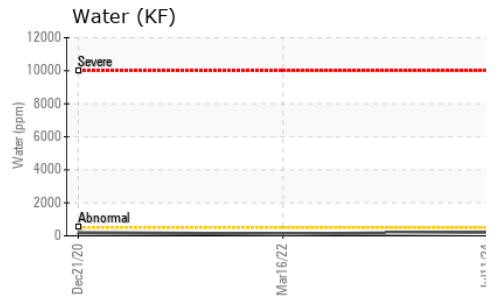
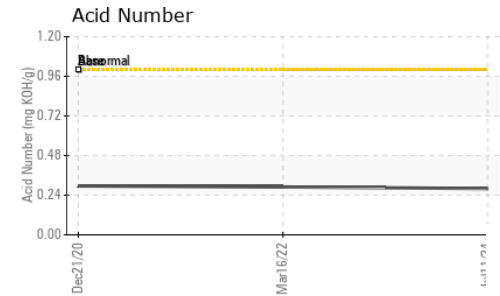
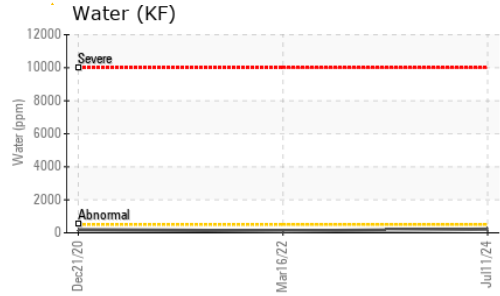
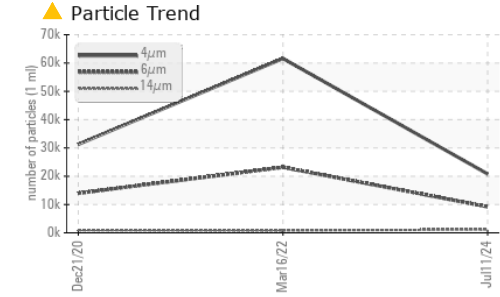
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	10	36	53
Calcium	ppm	ASTM D5185m	0	0	<1	2
Phosphorus	ppm	ASTM D5185m	0	0	<1	7
Zinc	ppm	ASTM D5185m	0	8	17	0
Sulfur	ppm	ASTM D5185m	23500	23179	15531	17290

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		7	12	13
Potassium	ppm	ASTM D5185m	>20	<1	2	1
Water	%	ASTM D6304	>0.05	0.021	0.011	0.018
ppm Water	ppm	ASTM D6304	>500	220	112.8	188.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		20796	61595	31277
Particles >6µm		ASTM D7647	>1300	▲ 9204	▲ 23158	▲ 13977
Particles >14µm		ASTM D7647	>80	▲ 1144	▲ 794	▲ 929
Particles >21µm		ASTM D7647	>20	▲ 303	▲ 109	▲ 243
Particles >38µm		ASTM D7647	>4	▲ 9	4	▲ 13
Particles >71µm		ASTM D7647	>3	1	0	5
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 22/20/17	▲ 22/17	▲ 21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.28	0.29	0.296

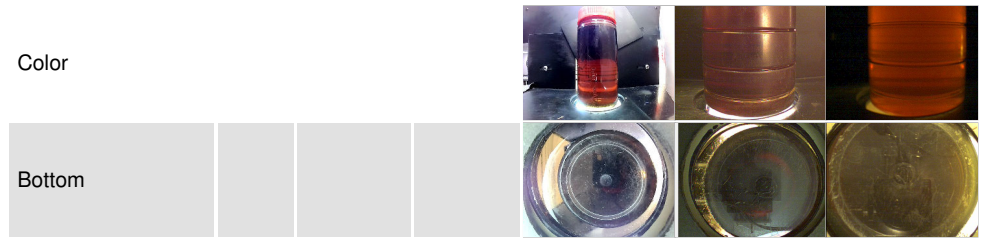
OIL ANALYSIS REPORT



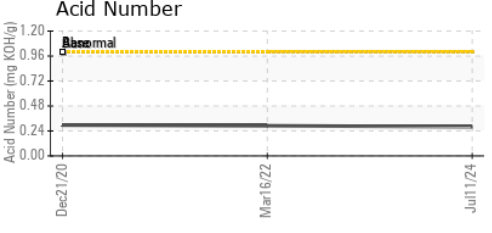
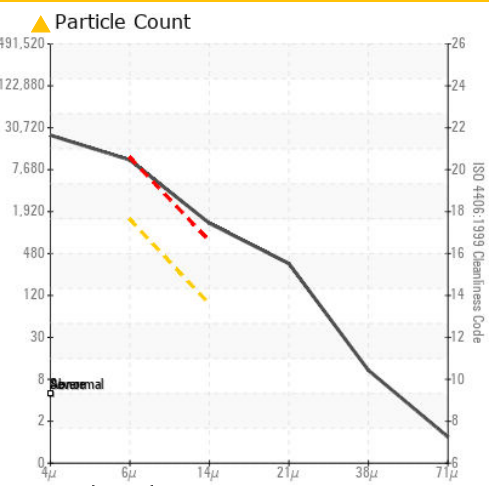
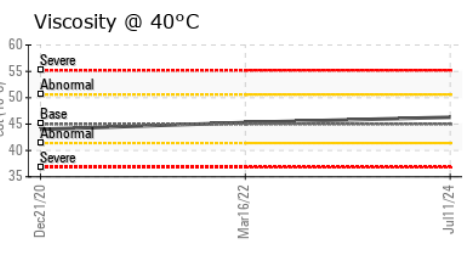
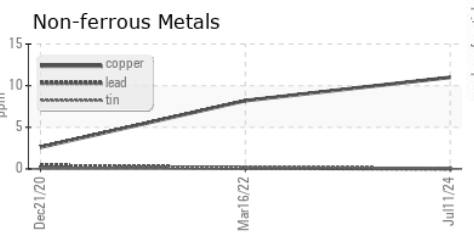
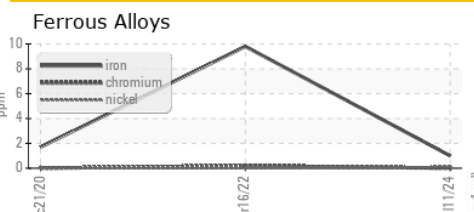
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.3	45.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA014273 **Received** : 16 Jul 2024
Lab Number : 06238374 **Tested** : 17 Jul 2024
Unique Number : 11127208 **Diagnosed** : 18 Jul 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

A & B CONVERTERS INC
 688 MARYLAND AVE
 BURLINGTON, WI
 US 53105
 Contact: STEVE
 steve@abcattech.com

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)