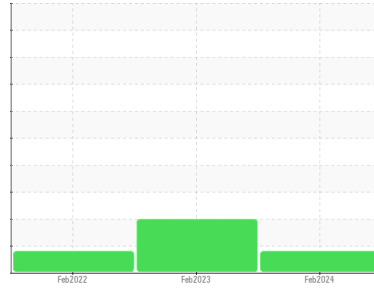




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
7319181 (S/N 1068)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-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 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KCPA0015196	KCP55886	KCP05505197
Sample Date	Client Info			19 Feb 2024	10 Feb 2023	11 Feb 2022
Machine Age	hrs	Client Info		5794	3947	1707
Oil Age	hrs	Client Info		2000	2000	1707
Oil Changed	Client Info			Changed	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
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	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>50	4	2	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

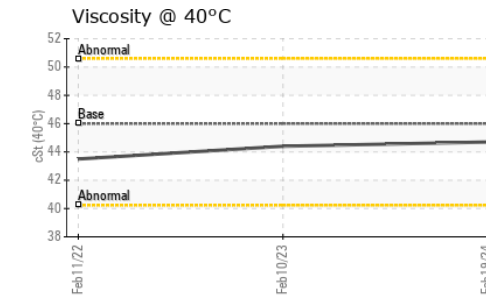
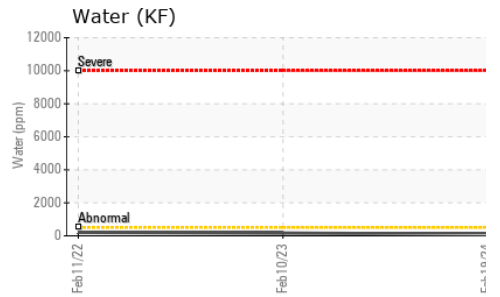
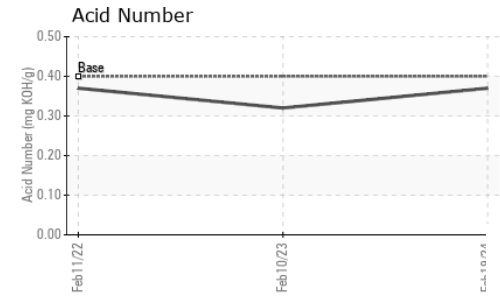
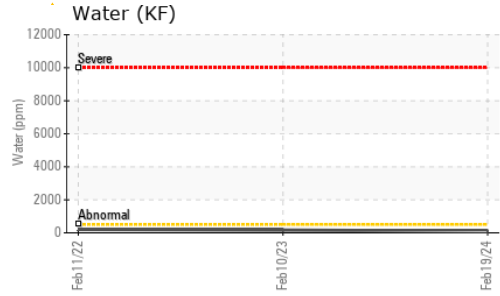
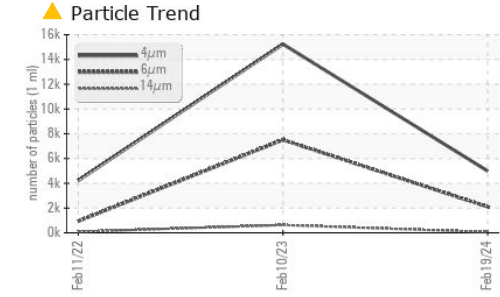
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	3	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	29	61	83
Calcium	ppm	ASTM D5185m	2	0	1	<1
Phosphorus	ppm	ASTM D5185m		1	3	3
Zinc	ppm	ASTM D5185m		4	6	0
Sulfur	ppm	ASTM D5185m		18179	20108	17227

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	<1
Sodium	ppm	ASTM D5185m		11	20	13
Potassium	ppm	ASTM D5185m	>20	6	6	10
Water	%	ASTM D6304	>0.05	0.009	0.016	0.020
ppm Water	ppm	ASTM D6304	>500	94	165.4	208.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		4991	15238	4223
Particles >6µm		ASTM D7647	>1300	▲ 2101	▲ 7509	945
Particles >14µm		ASTM D7647	>80	61	▲ 629	▲ 86
Particles >21µm		ASTM D7647	>20	10	▲ 95	▲ 23
Particles >38µm		ASTM D7647	>4	0	▲ 6	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 19/18/13	▲ 21/20/16	▲ 17/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.37	0.32	0.37

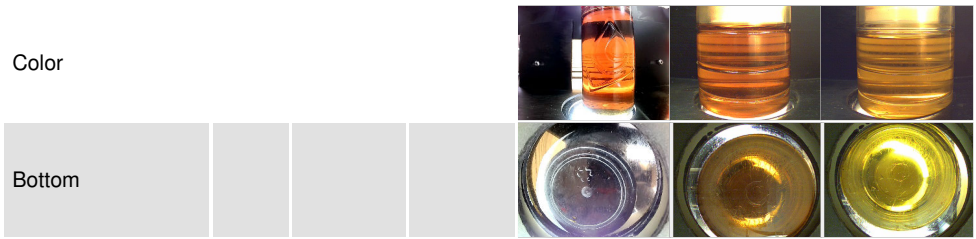
OIL ANALYSIS REPORT



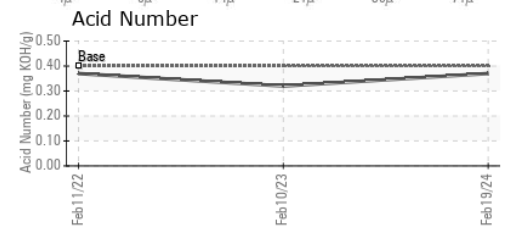
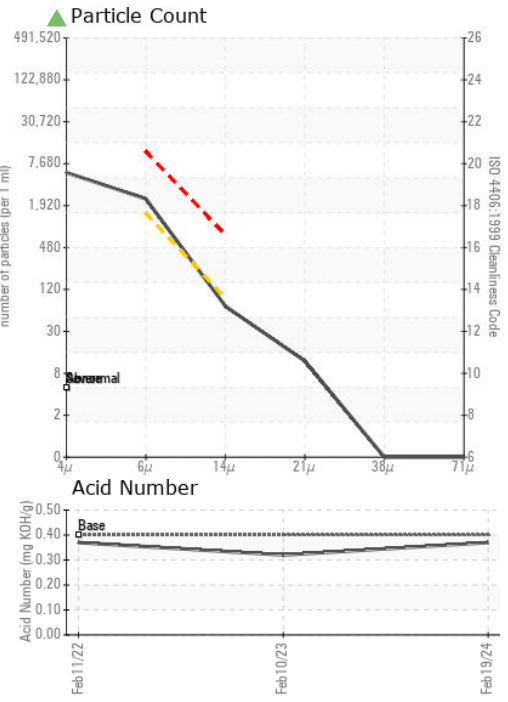
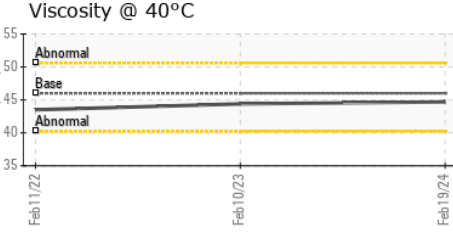
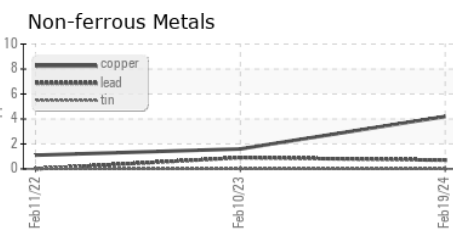
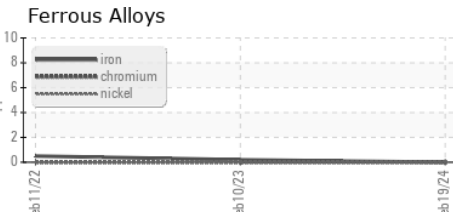
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	44.7	44.4	43.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA0015196 **Received** : 23 Feb 2024
Lab Number : 06099156 **Tested** : 27 Feb 2024
Unique Number : 10897386 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

LODGE MANUFACTURING COMPANY
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 SOUTH PITTSBURG, TN
 US 37380
 Contact: G. HEFFLEY
 gheffley@lodgecastiron.com
 T:
 F:

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)