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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
KAESER 6427839
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-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.

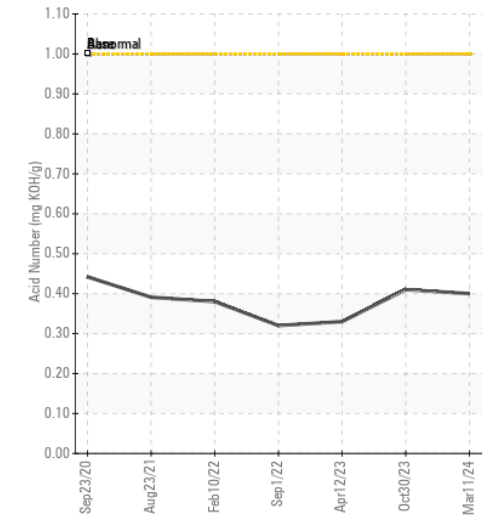
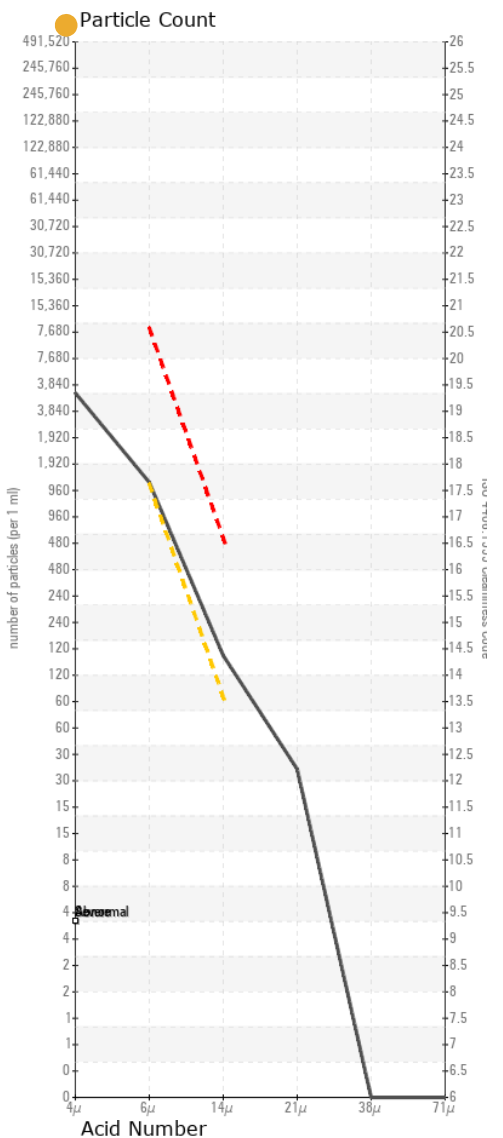
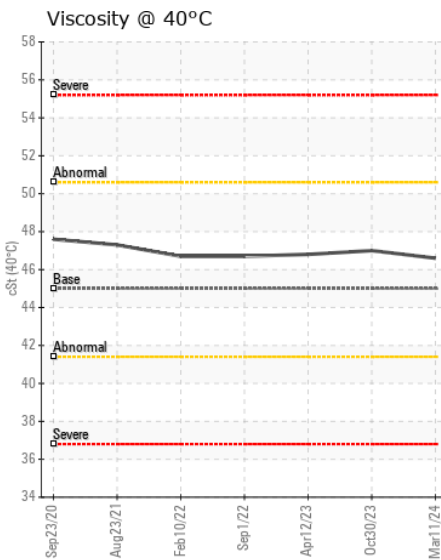
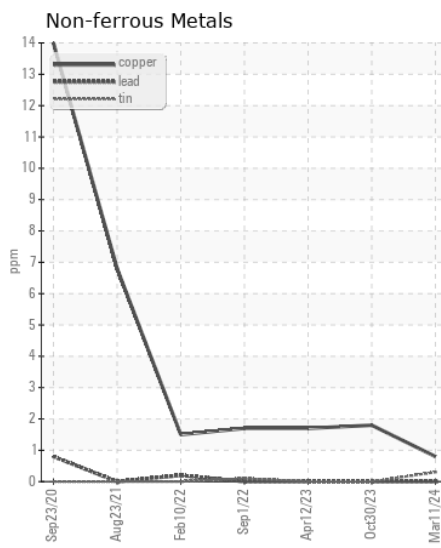
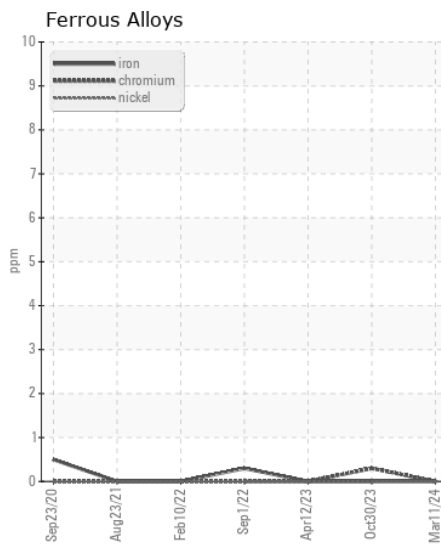
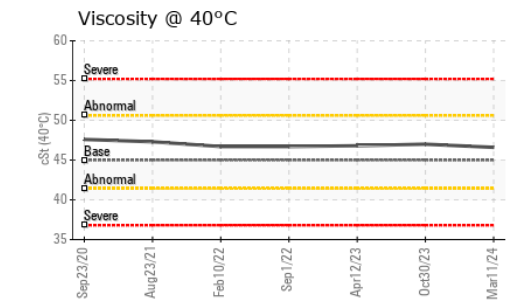
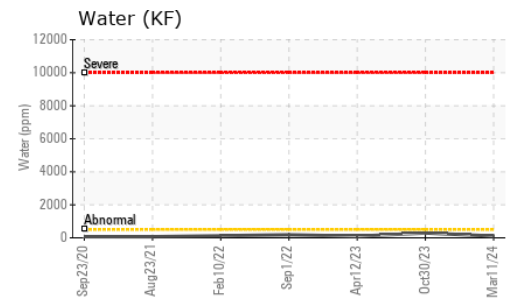
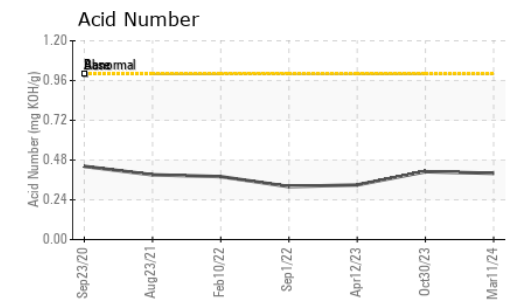
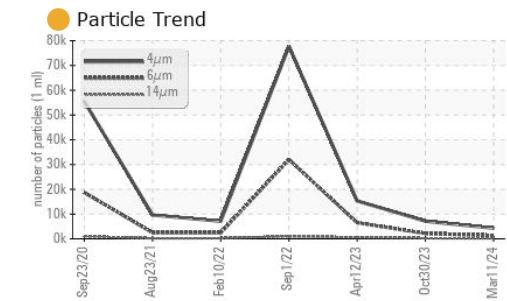
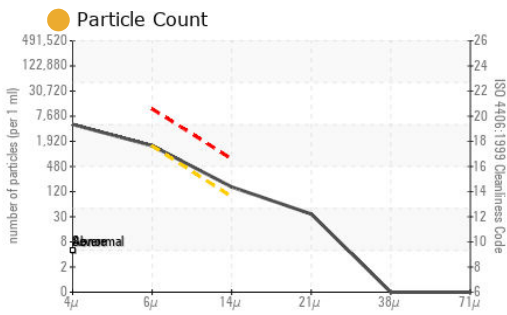
CONTAMINATION

There is a moderate amount of 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA014929	KCPA009478	KCPA000130
Sample Date		Client Info		11 Mar 2024	30 Oct 2023	12 Apr 2023
Machine Age	hrs	Client Info		23064	21514	19153
Oil Age	hrs	Client Info		1549	0	0
Filter Age	hrs	Client Info		1549	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	<1	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	2	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	2	4
Water	%	ASTM D6304	>0.05	0.010	0.029	0.009
ppm Water	ppm	ASTM D6304	>500	107	292.0	96.6
Particles >4µm		ASTM D7647		4259	7120	15314
Particles >6µm		ASTM D7647	>1300	1322	2152	6482
Particles >14µm		ASTM D7647	>80	137	213	586
Particles >21µm		ASTM D7647	>20	31	51	100
Particles >38µm		ASTM D7647	>4	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	~-/17/13	19/18/14	20/18/15	21/20/16
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
Sodium	ppm	ASTM D5185m		17	10	19
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	43	6	21
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	73	61	65
Calcium	ppm	ASTM D5185m	0	2	1	1
Phosphorus	ppm	ASTM D5185m	0	0	0	0
Zinc	ppm	ASTM D5185m	0	0	0	6
Sulfur	ppm	ASTM D5185m	23500	22204	21895	19505
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.41	0.33
Visc @ 40°C	cSt	ASTM D445	45	46.6	47.0	46.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA014929 **Received** : 20 Mar 2024
Lab Number : 06123662 **Tested** : 25 Mar 2024
Unique Number : 10937813 **Diagnosed** : 25 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

KROGER
 1933 TOWER RD
 AURORA, CO
 US 80011
 Contact: Service Manager

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)

T:
F: