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OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER ASD 30 3125208 (S/N 1374)
 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA015538	KCP40492	KCP29808
Sample Date		Client Info		08 Mar 2024	27 Jan 2015	04 Oct 2013
Machine Age	hrs	Client Info		22266	17993	17389
Oil Age	hrs	Client Info		151	1518	914
Filter Age	hrs	Client Info		151	1518	914
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	2	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	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	5	5	3
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

CONTAMINATION

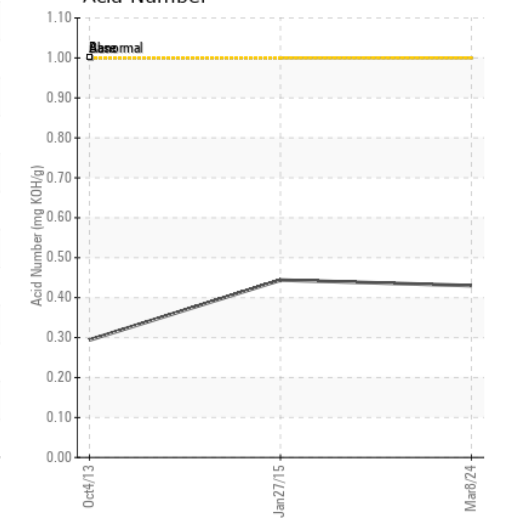
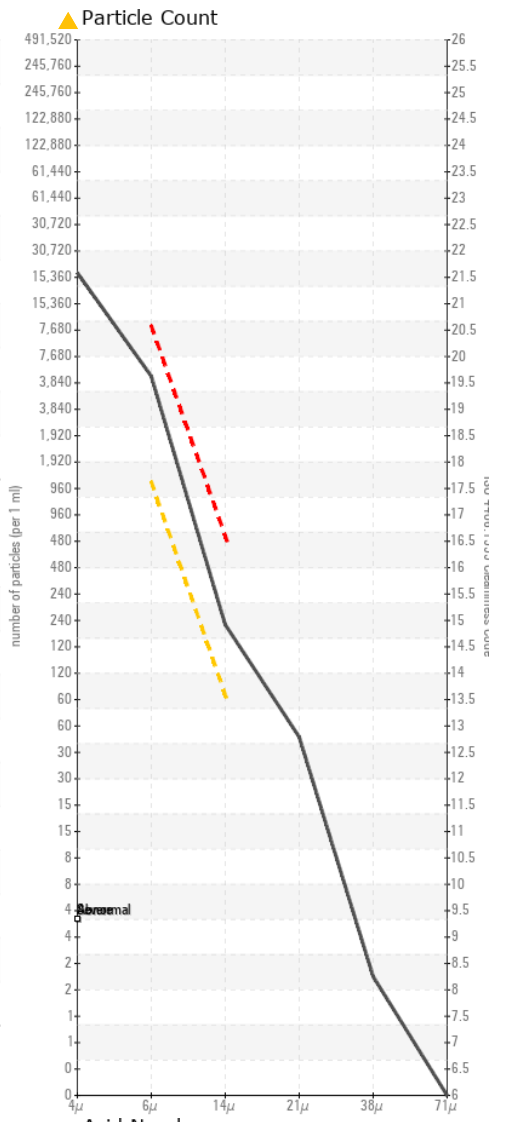
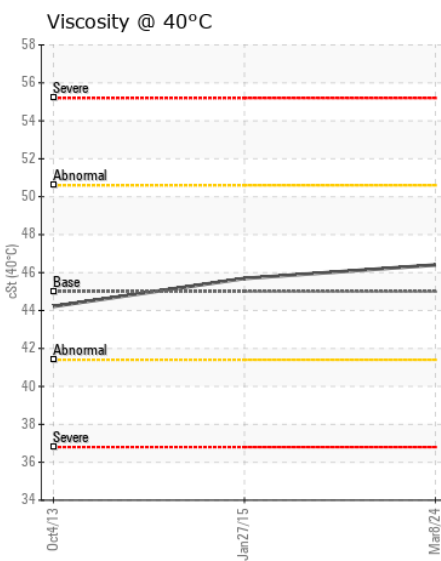
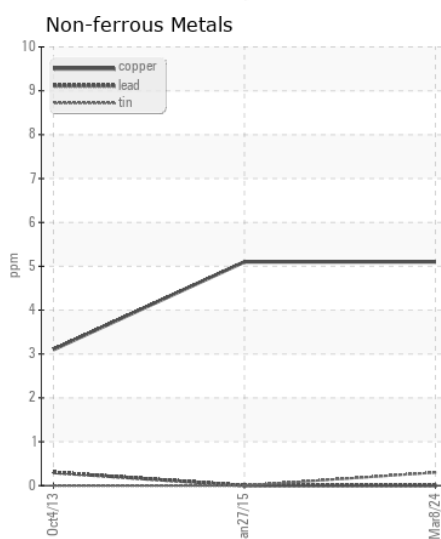
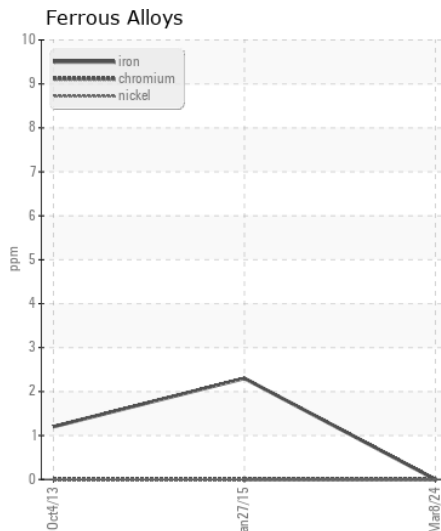
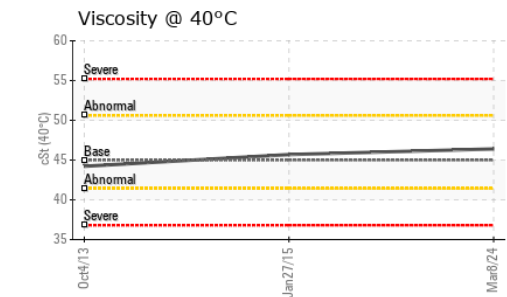
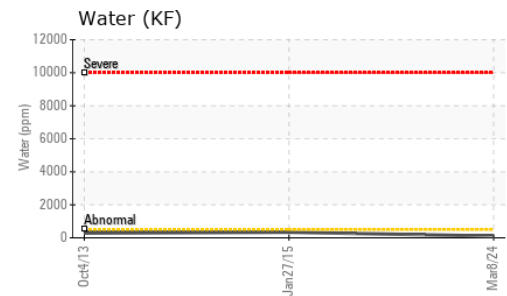
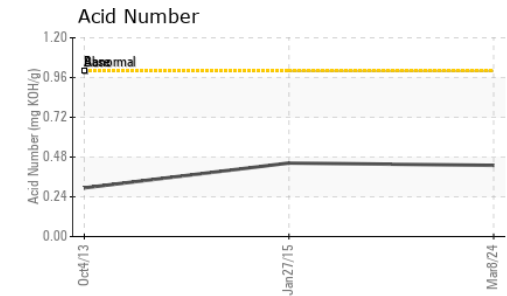
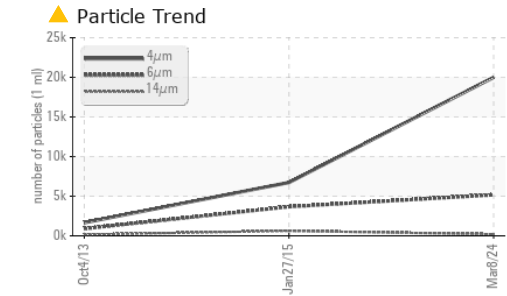
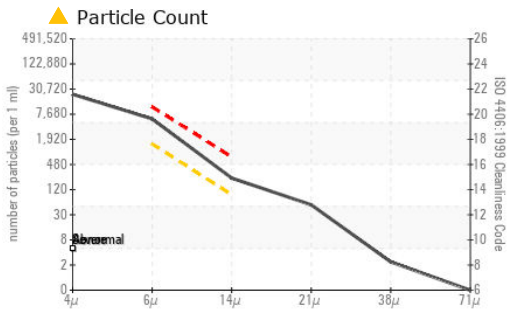
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	0	5
Water	%	ASTM D6304	>0.05	0.010	0.034	0.029
ppm Water	ppm	ASTM D6304	>500	105	340	290
Particles >4µm		ASTM D7647		20002	6731	1653
Particles >6µm		ASTM D7647	>1300	▲ 5171	▲ 3666	900
Particles >14µm		ASTM D7647	>80	▲ 200	▲ 624	▲ 153
Particles >21µm		ASTM D7647	>20	▲ 46	▲ 210	▲ 51
Particles >38µm		ASTM D7647	>4	2	▲ 32	▲ 7
Particles >71µm		ASTM D7647	>3	0	▲ 3	0
Oil Cleanliness		ISO 4406 (c)	>-/17/13	▲ 22/20/15	▲ 19/16	▲ 17/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		18	8	12
Boron	ppm	ASTM D5185m	0	0	<1	<1
Barium	ppm	ASTM D5185m	90	21	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	100	70	26	52
Calcium	ppm	ASTM D5185m	0	1	0	0
Phosphorus	ppm	ASTM D5185m	0	0	0	0
Zinc	ppm	ASTM D5185m	0	8	30	11
Sulfur	ppm	ASTM D5185m	23500	22037	20197	19439
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.43	0.444	0.294
Visc @ 40°C	cSt	ASTM D445	45	46.4	45.69	44.22



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA015538 **Received** : 20 Mar 2024
Lab Number : 06123649 **Tested** : 25 Mar 2024
Unique Number : 10937800 **Diagnosed** : 25 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

MONARCH METALS
 2597 W 64TH AVE
 DENVER, CO
 US 80221
 Contact:

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: