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OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KAESER SFC 22 7011176 (S/N 1039)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KCPA007388	KCPA004850	KCP55397
Sample Date		Client Info		30 Jan 2024	04 Aug 2023	17 Feb 2023
Machine Age	hrs	Client Info		27644	23350	19843
Oil Age	hrs	Client Info		0	0	2700
Filter Age	hrs	Client Info		0	0	2700
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	5	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	▲ 16	▲ 51	▲ 13
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	4	3	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

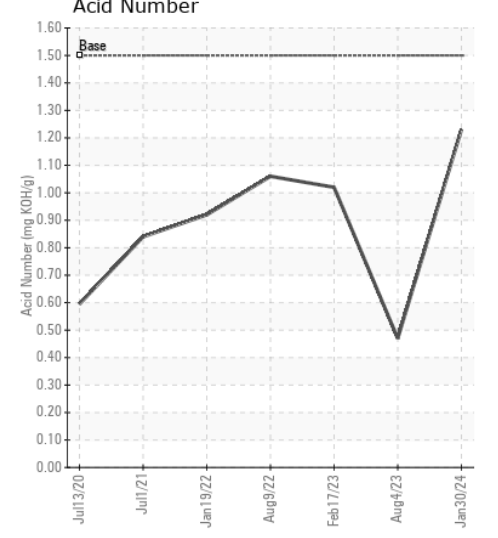
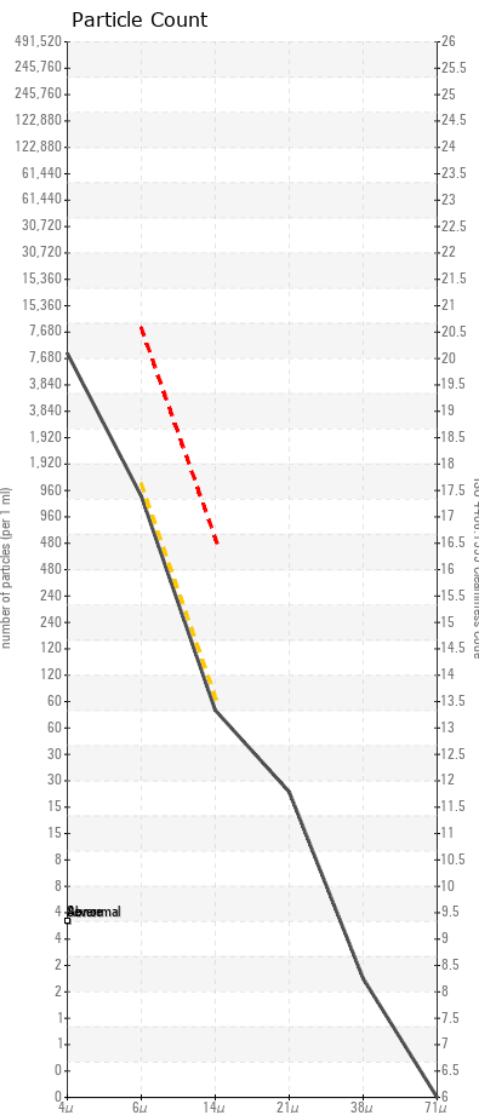
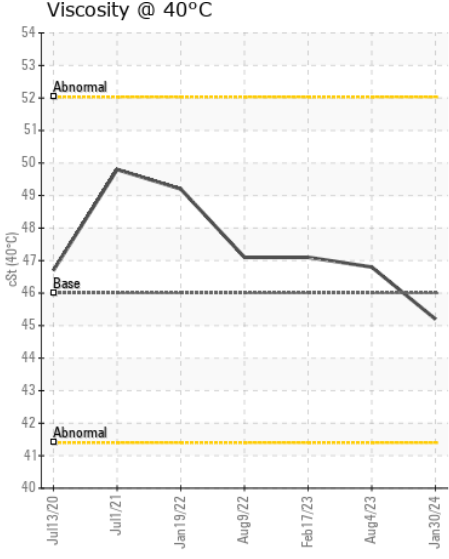
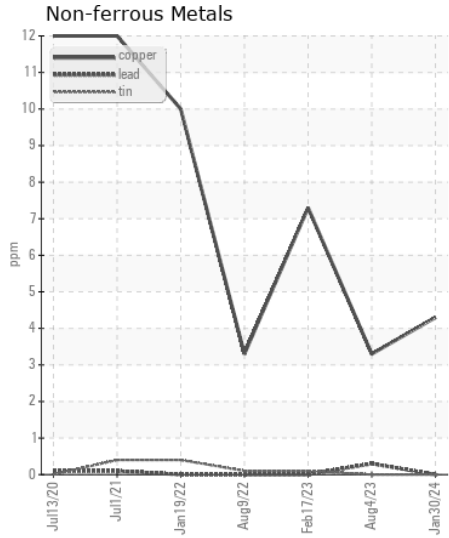
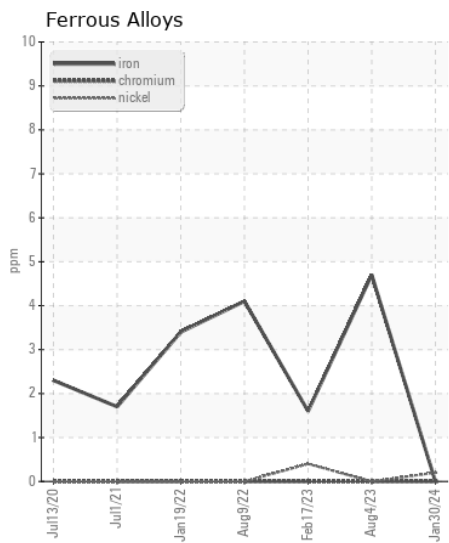
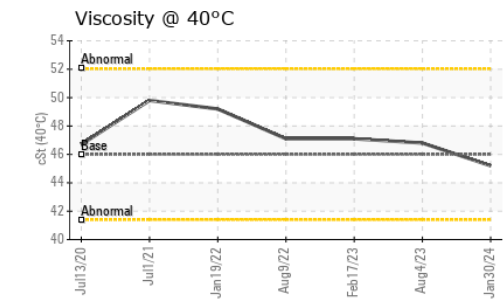
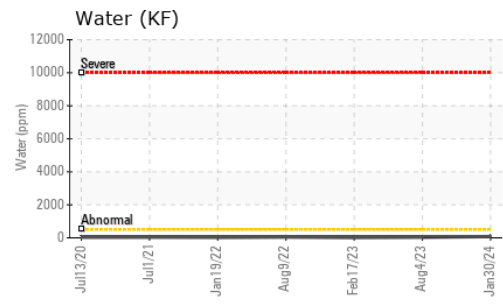
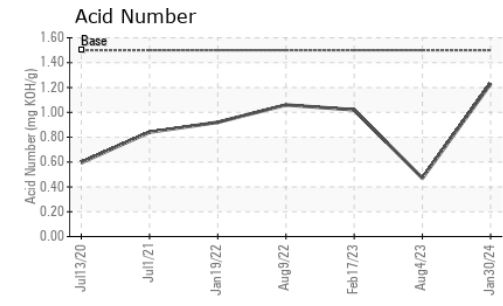
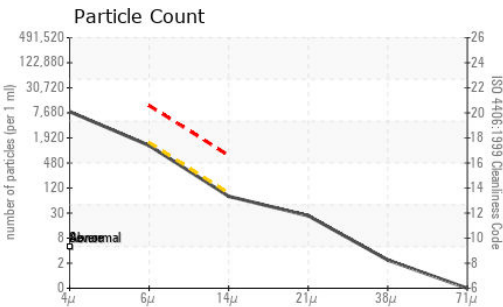
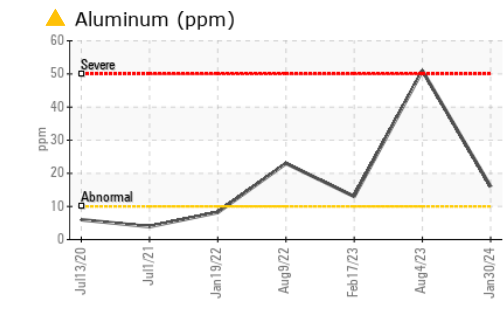
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	4	2
Water	%	ASTM D6304	>0.05	0.007	0.003	0.001
ppm Water	ppm	ASTM D6304	>500	76	36.5	8.4
Particles >4µm		ASTM D7647		7153	3815	37310
Particles >6µm		ASTM D7647	>1300	1104	● 1597	▲ 14364
Particles >14µm		ASTM D7647	>80	67	▲ 201	▲ 1367
Particles >21µm		ASTM D7647	>20	23	▲ 60	▲ 356
Particles >38µm		ASTM D7647	>4	2	2	▲ 11
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	≤-/17/13	20/17/13	▲ 19/18/15	▲ 22/21/18
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	4	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	6	3
Calcium	ppm	ASTM D5185m		0	2	0
Phosphorus	ppm	ASTM D5185m	500	439	328	388
Zinc	ppm	ASTM D5185m		212	107	189
Sulfur	ppm	ASTM D5185m		1729	1966	1583
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	1.23	0.47	1.02
Visc @ 40°C	cSt	ASTM D445	46	45.2	46.8	47.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA007388 **Received** : 14 Feb 2024
Lab Number : 06088779 **Tested** : 15 Feb 2024
Unique Number : 10876224 **Diagnosed** : 15 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

LEPRINO FOODS
 1830 W 38TH AVE
 DENVER, CO
 US 80211
 Contact: Service Manager

Certificate L2367
 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)