



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ATTENTION
NORMAL

Area

KAESER S-460 [8089]

Machine Id

KAESER 1003 - SUPERIOR GRAPHITE CO

Component

Compressor

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

WEAR

An increase in the iron level is noted. The aluminum level is abnormal.

CONTAMINATION

There is a high amount of visible silt present in the sample. There is a trace of moisture present in the oil.

FLUID CONDITION

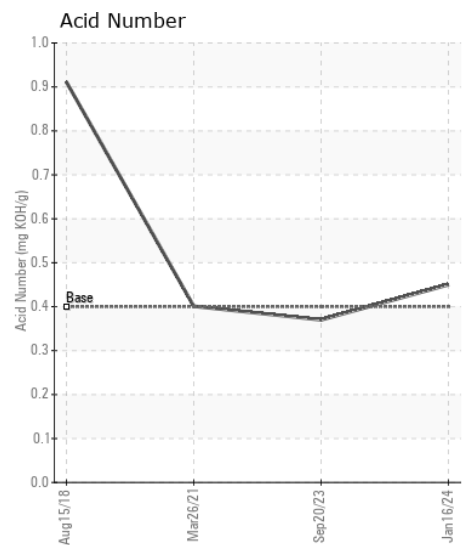
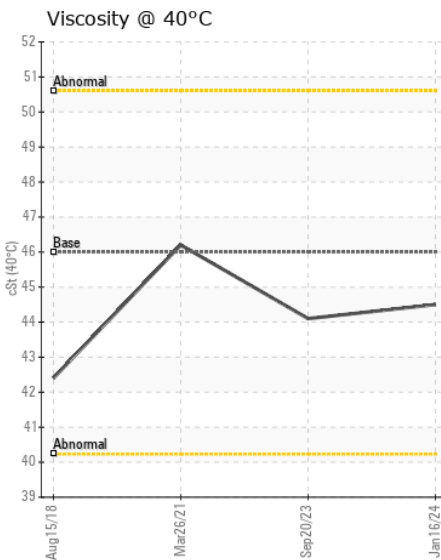
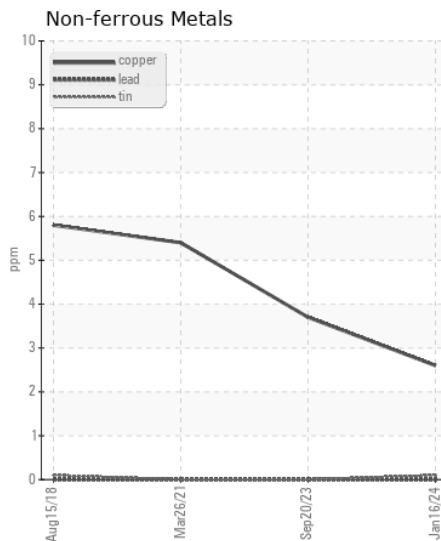
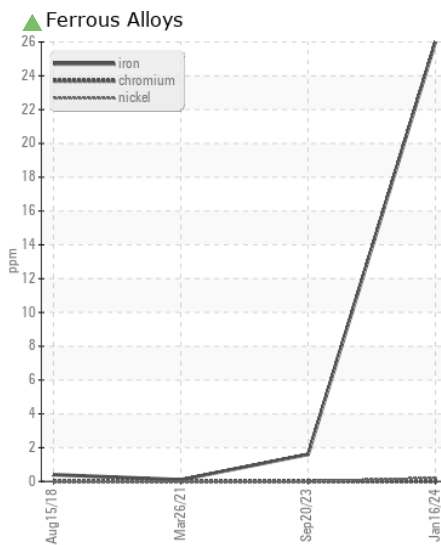
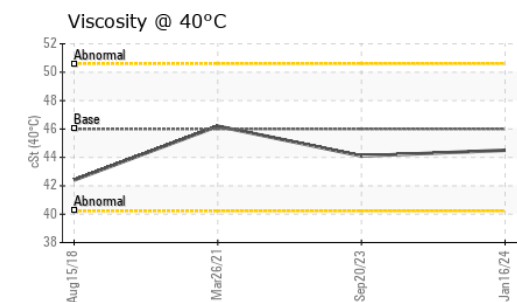
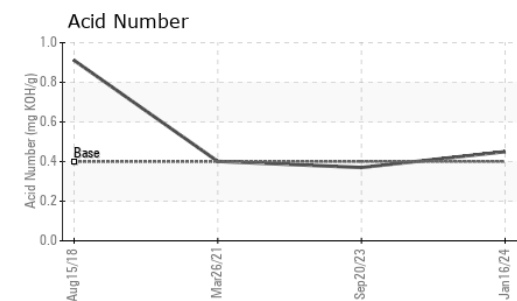
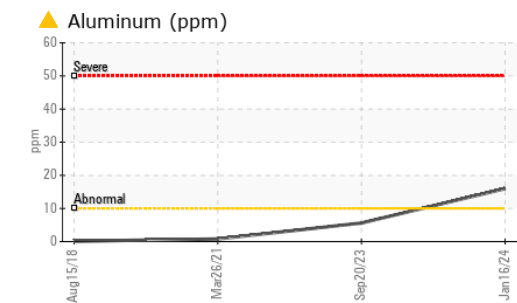
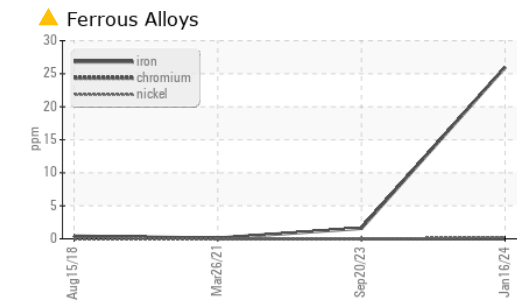
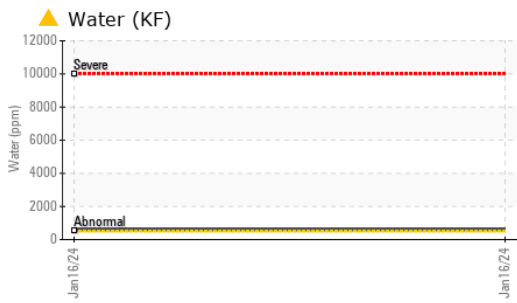
The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		UCH06076989	UCH05982466	UCH05225815
Sample Date		Client Info		16 Jan 2024	20 Sep 2023	26 Mar 2021
Machine Age	hrs	Client Info		53425	53210	102878
Oil Age	hrs	Client Info		0	203	0
Filter Age	hrs	Client Info		0	203	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>50	▲ 26	2	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	▲ 16	6	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	4	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>25	1	0	12
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	▲ 0.060	---	---
ppm Water	ppm	ASTM D6304	>500	▲ 600	---	---
Silt	scalar	*Visual	NONE	HEAVY	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	0.2%	NEG	NEG

Sodium	ppm	ASTM D5185m		1	<1	0
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	38	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	9	14	0
Calcium	ppm	ASTM D5185m	2	3	0	0
Phosphorus	ppm	ASTM D5185m		3	4	26
Zinc	ppm	ASTM D5185m		8	2	0
Sulfur	ppm	ASTM D5185m		16712	18002	6904
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.45	0.37	0.401
Visc @ 40°C	cSt	ASTM D445	46	44.5	44.1	46.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH06076989 **Received** : 01 Feb 2024
Lab Number : 06076989 **Diagnosed** : 02 Feb 2024
Unique Number : 10859080 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

DELTA INDUSTRIES - DOWNERS GROVE
 2201 CURTISS STREET
 DOWNERS GROVE, IL
 US 60515
 Contact: MICHAEL FERRIS

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: (630)960-3931