



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
QL6 LEVELER LUBE OIL SYSTEM

Component
Hydraulic System

Fluid
TRIBOL GEAROIL 1100/320 (1500 GAL)

RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST43866	ST43806	ST43873
Sample Date		Client Info		05 Jan 2024	13 Nov 2023	23 Oct 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

Iron	ppm	ASTM D5185m	>40	<1	<1	<1
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	▲ 16	▲ 21	▲ 27
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>60	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

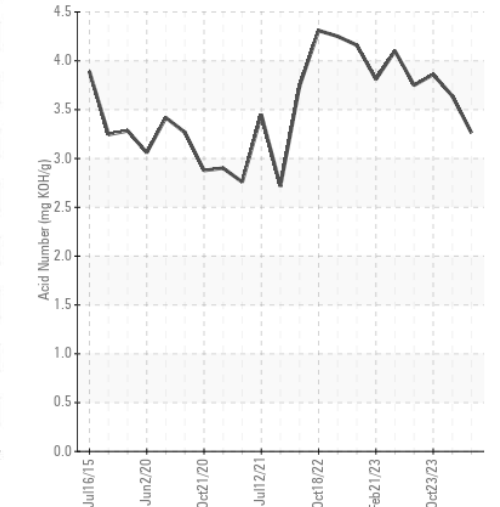
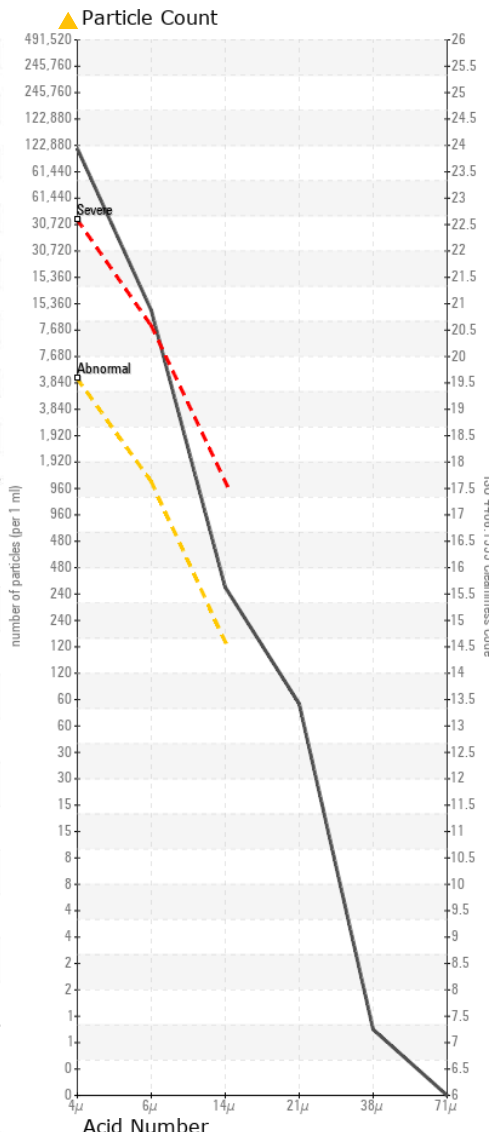
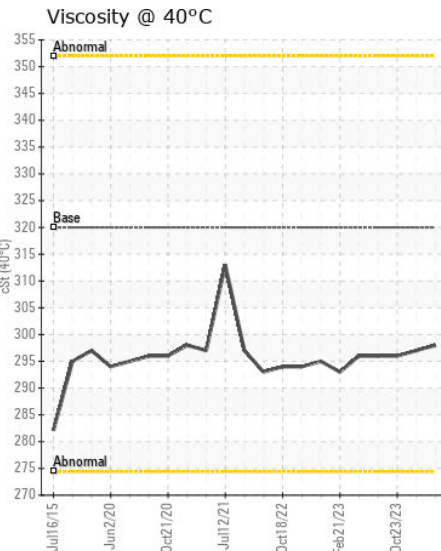
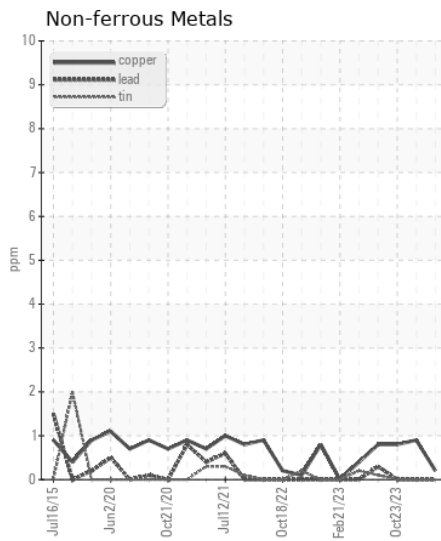
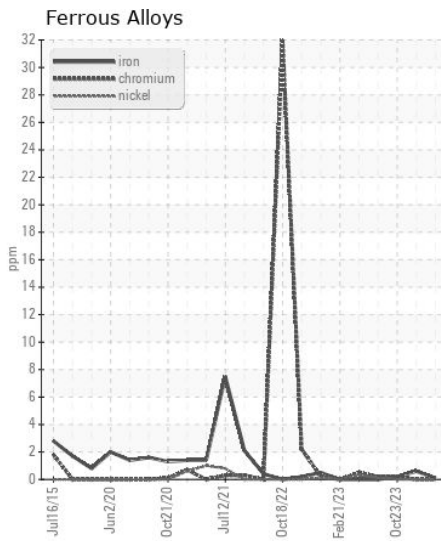
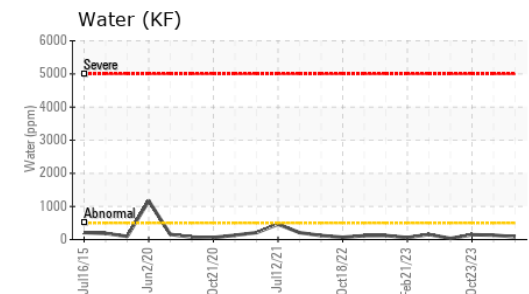
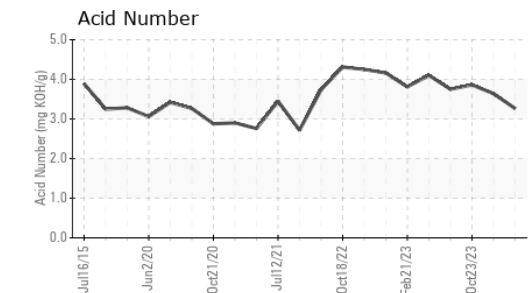
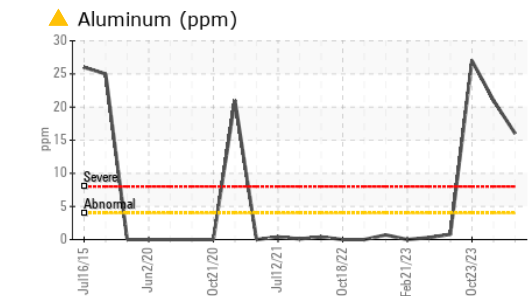
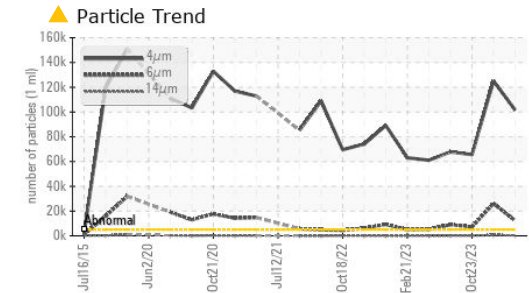
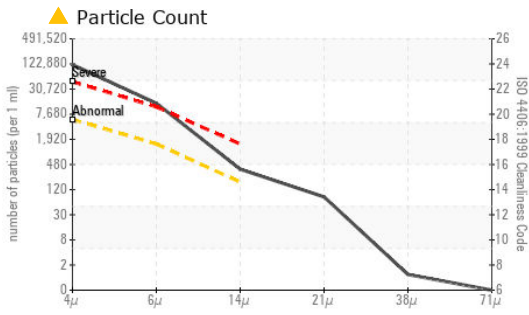
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	15	▲ 23	20
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water	%	ASTM D6304	>0.05	0.008	0.013	0.014
ppm Water	ppm	ASTM D6304	>500	81	133.8	146.3
Particles >4µm		ASTM D7647	>5000	▲ 101650	▲ 125074	▲ 65588
Particles >6µm		ASTM D7647	>1300	▲ 12230	▲ 26156	▲ 7178
Particles >14µm		ASTM D7647	>160	▲ 326	▲ 589	112
Particles >21µm		ASTM D7647	>40	▲ 71	▲ 116	24
Particles >38µm		ASTM D7647	>10	1	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/16	▲ 24/22/16	▲ 23/20/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	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		<1	0	0
Boron	ppm	ASTM D5185m		45	0	0
Barium	ppm	ASTM D5185m		2	14	12
Molybdenum	ppm	ASTM D5185m		1891	2189	2120
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		69	81	89
Phosphorus	ppm	ASTM D5185m		3046	3358	2881
Zinc	ppm	ASTM D5185m		1073	1137	1104
Sulfur	ppm	ASTM D5185m		5465	6187	5698
Acid Number (AN)	mg KOH/g	ASTM D8045		3.263	3.64	3.86
Visc @ 40°C	cSt	ASTM D445	320	298	297	296



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST43866 **Received** : 10 Jan 2024
Lab Number : 06056644 **Diagnosed** : 11 Jan 2024
Unique Number : 10822593 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF)

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)

SSAB STEEL
 12400 HWY 43 NORTH
 AXIS, AL
 US 36505
 Contact: BEN LOMAX
 ben.lomax@ssab.com
 T: (888)592-7070
 F: (251)662-4784