



**PERFORMANCE
UNDER
PRESSURE**

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
MELT SHOP - HYDRAULIC
Machine Id
MELT SHOP GRINDER LUBE TANK (S/N 15-4000-0770)

Component
Tank Bulk Fluid Tank
Fluid
FIRE-RESISTANT FLUID ISO 68 (275 QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RP0039318	RP0038543	RP0038071
Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m		18	25	9
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	0
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		0	<1	1
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

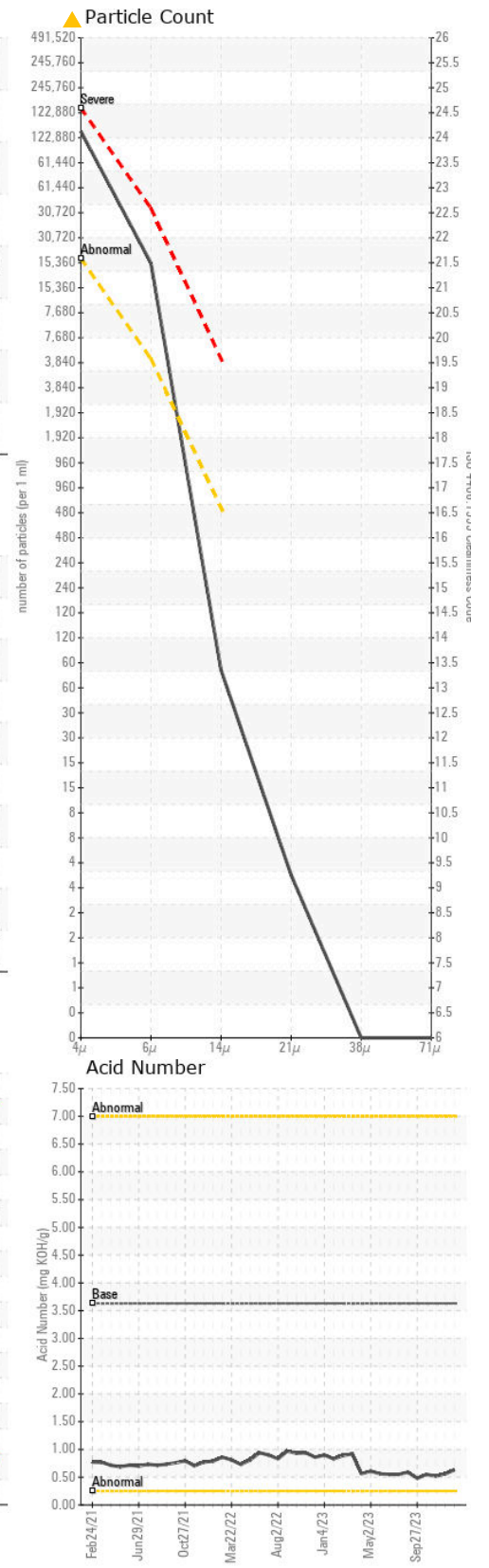
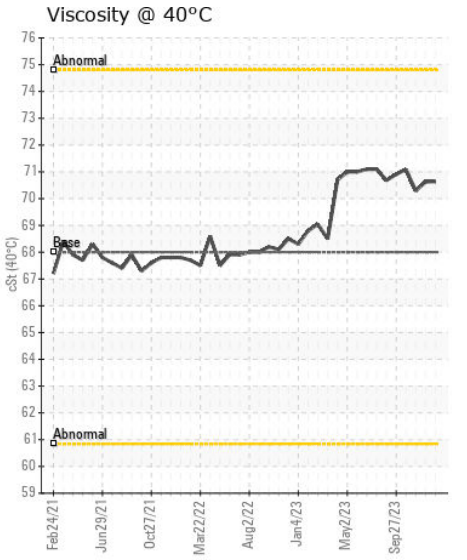
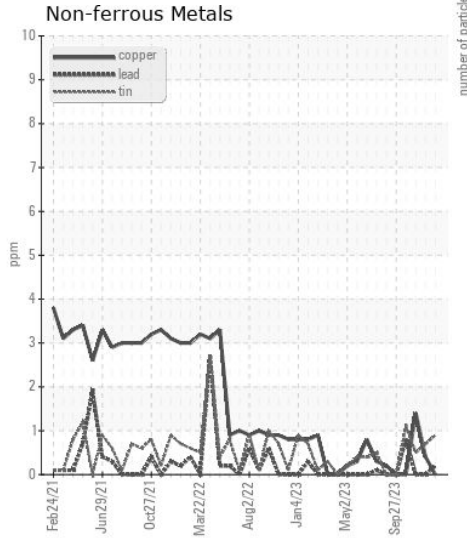
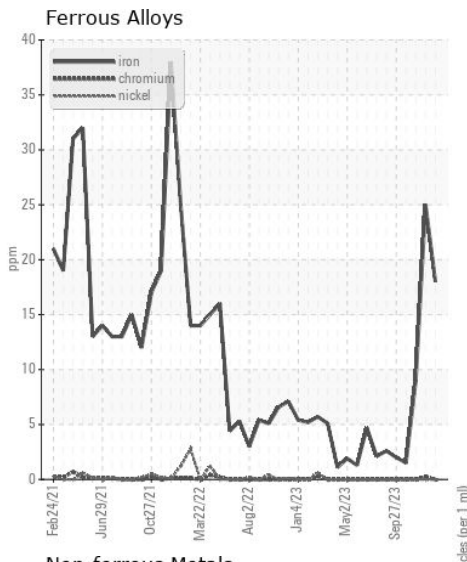
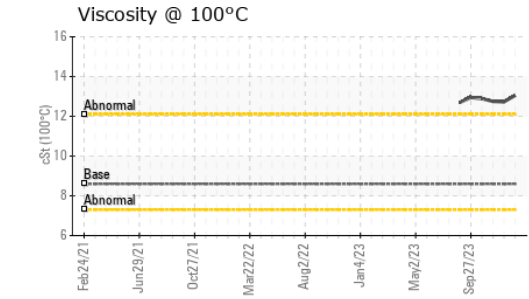
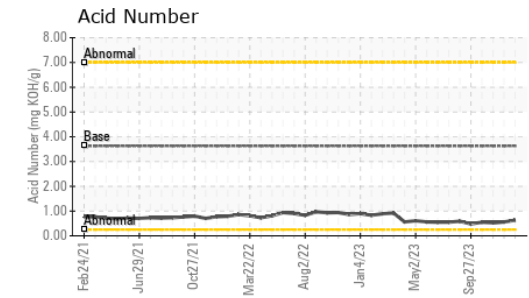
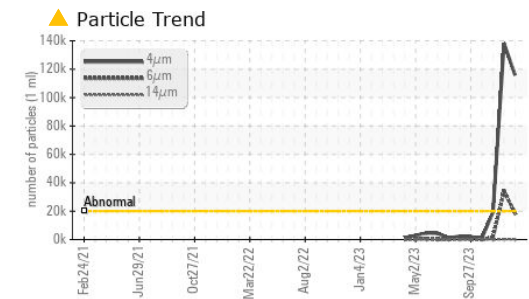
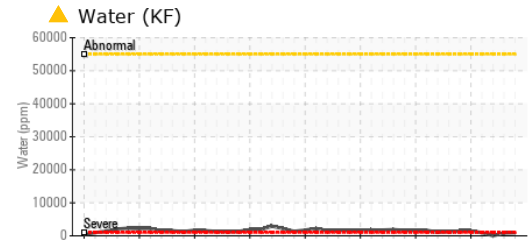
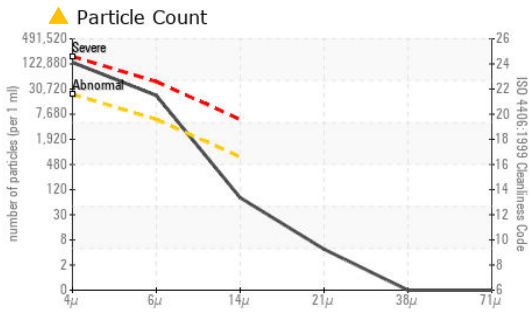
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304	>55	▲ 0.092	▲ 0.081	0.003
ppm Water	ppm	ASTM D6304	>55000	▲ 930	▲ 811	37
Particles >4µm		ASTM D7647	>20000	▲ 115835	▲ 138274	19227
Particles >6µm		ASTM D7647	>5000	▲ 18712	▲ 33884	1568
Particles >14µm		ASTM D7647	>640	68	299	55
Particles >21µm		ASTM D7647	>160	4	23	13
Particles >38µm		ASTM D7647	>40	0	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/13	▲ 24/22/15	21/18/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>55	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		0	0	<1
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	0	0	0
Calcium	ppm	ASTM D5185m	50	0	0	3
Phosphorus	ppm	ASTM D5185m	175	550	597	591
Zinc	ppm	ASTM D5185m	62	0	0	0
Acid Number (AN)	mg KOH/g	ASTM D8045	3.63	0.63	0.56	0.52
Visc @ 40°C	cSt	ASTM D445	68	70.64	70.63	70.29
Visc @ 100°C	cSt	ASTM D445	8.6	13.05	12.73	12.75
Viscosity Index (VI)	Scale	ASTM D2270	96	188	182	183



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0039318 **Received** : 01 Feb 2024
Lab Number : 06077908 **Diagnosed** : 05 Feb 2024
Unique Number : 10859999 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, pH, PrtCount, ReserveAlk, VI)

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)

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