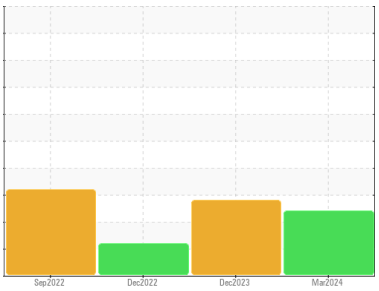
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
PLOGER
Machine Id
9211 - PLOGER
Component
Transmission (Manual)
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the fluid.

Fluid Condition
The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0900778**	WC0900775	WC0771197
Sample Date		Client Info		**29 Mar 2024**	29 Dec 2023	16 Dec 2022
Machine Age	mls	Client Info		**349550**	349550	183602
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**96**	93	77
Chromium	ppm	ASTM D5185m	>5	**1**	1	1
Nickel	ppm	ASTM D5185m	>5	**<1**	1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>7	**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**21**	19	16
Lead	ppm	ASTM D5185m	>45	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>225	**184**	185	147
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**265**	261	221
Barium	ppm	ASTM D5185m		**0**	0	2
Molybdenum	ppm	ASTM D5185m		**<1**	<1	2
Manganese	ppm	ASTM D5185m		**23**	23	22
Magnesium	ppm	ASTM D5185m		**2**	4	2
Calcium	ppm	ASTM D5185m		**214**	220	200
Phosphorus	ppm	ASTM D5185m		**1319**	1288	1159
Zinc	ppm	ASTM D5185m		**30**	36	26
Sulfur	ppm	ASTM D5185m		**1213**	1237	863

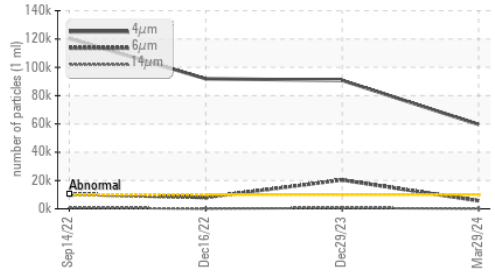
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**7**	7	10
Sodium	ppm	ASTM D5185m		**4**	4	<1
Potassium	ppm	ASTM D5185m	>20	**2**	3	2
Water	%	ASTM D6304	>0.1	**0.048**	0.056	0.074
ppm Water	ppm	ASTM D6304	>1000	**488**	569	742.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **59601**	▲ 90773	▲ 91911
Particles >6µm		ASTM D7647	>2500	▲ **5692**	▲ 20392	▲ 7981
Particles >14µm		ASTM D7647	>320	**94**	● 614	75
Particles >21µm		ASTM D7647	>80	**18**	89	8
Particles >38µm		ASTM D7647	>20	**1**	1	1
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/20/14**	▲ 24/22/16	▲ 24/20/13

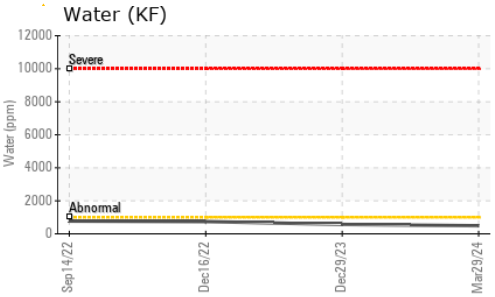
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **3.55**	▲ 3.65	3.249

OIL ANALYSIS REPORT

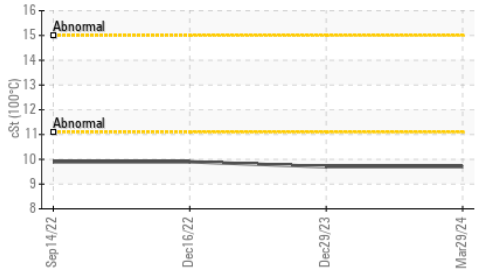
Particle Trend



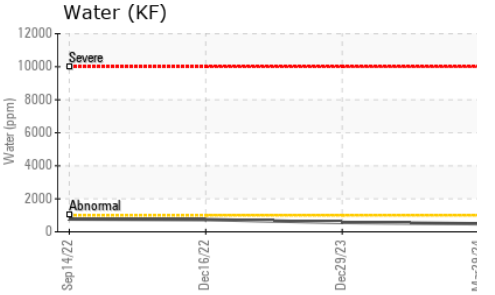
Water (KF)



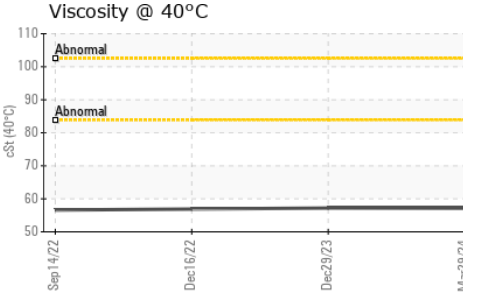
Viscosity @ 100°C



Water (KF)

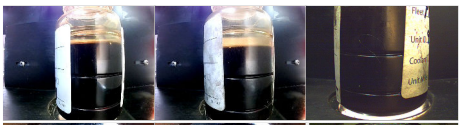


Viscosity @ 40°C



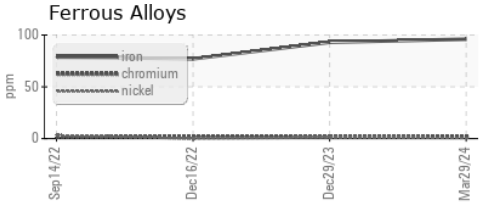
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**57.1**	57.2	56.9
Visc @ 100°C	cSt	ASTM D445		**9.7**	9.7	9.9
Viscosity Index (VI)	Scale	ASTM D2270		**155**	154	161

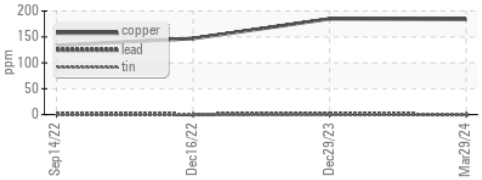
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

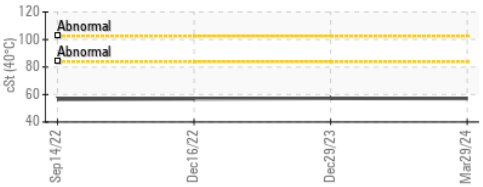
Ferrous Alloys



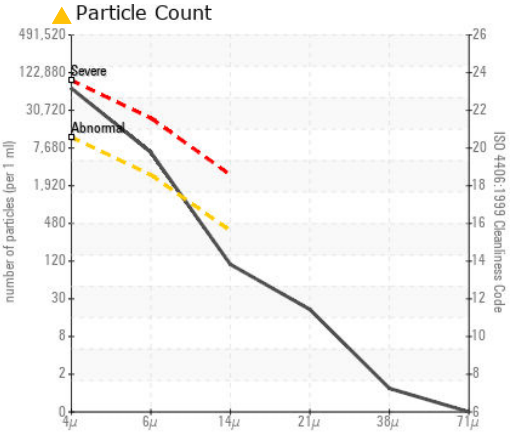
Non-ferrous Metals



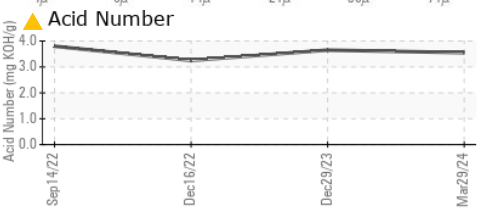
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900778 **Received** : 18 Apr 2024
Lab Number : 06153099 **Tested** : 19 Apr 2024
Unique Number : 10983177 **Diagnosed** : 22 Apr 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, 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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