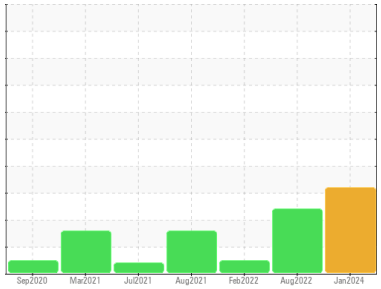
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Area
PLOGER
Machine Id
118 - PLOGER
Component
Rear 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 silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition
The AN level is above the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0900873**	WC0728475	WC0666382
Sample Date		Client Info		**23 Jan 2024**	09 Aug 2022	19 Feb 2022
Machine Age	mls	Client Info		**334439**	494491	440186
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**55**	52	52
Chromium	ppm	ASTM D5185m	>5	**<1**	1	1
Nickel	ppm	ASTM D5185m	>5	**<1**	3	0
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>7	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	▲ **60**	48	39
Lead	ppm	ASTM D5185m	>45	**0**	<1	<1
Copper	ppm	ASTM D5185m	>225	**53**	41	33
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**244**	119	246
Barium	ppm	ASTM D5185m		**0**	2	0
Molybdenum	ppm	ASTM D5185m		**<1**	2	1
Manganese	ppm	ASTM D5185m		**23**	26	27
Magnesium	ppm	ASTM D5185m		**0**	2	3
Calcium	ppm	ASTM D5185m		**195**	236	222
Phosphorus	ppm	ASTM D5185m		**1299**	1278	1273
Zinc	ppm	ASTM D5185m		**10**	26	10
Sulfur	ppm	ASTM D5185m		**1868**	1363	1310

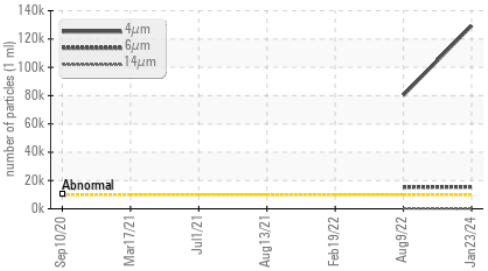
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**10**	17	10
Sodium	ppm	ASTM D5185m		**<1**	4	3
Potassium	ppm	ASTM D5185m	>20	**0**	1	2
Water	%	ASTM D6304	>0.1	**0.058**	0.082	0.034
ppm Water	ppm	ASTM D6304	>1000	**582**	829.2	345.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **129395**	▲ 80193	---
Particles >6µm		ASTM D7647	>2500	▲ **15445**	▲ 15298	---
Particles >14µm		ASTM D7647	>320	**84**	259	---
Particles >21µm		ASTM D7647	>80	**10**	64	---
Particles >38µm		ASTM D7647	>20	**1**	1	---
Particles >71µm		ASTM D7647	>4	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/21/14**	▲ 24/21/15	---

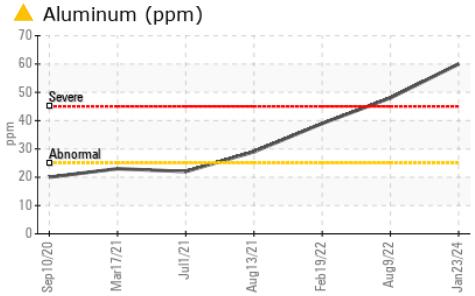
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **4.47**	▲ 4.22	3.37

OIL ANALYSIS REPORT

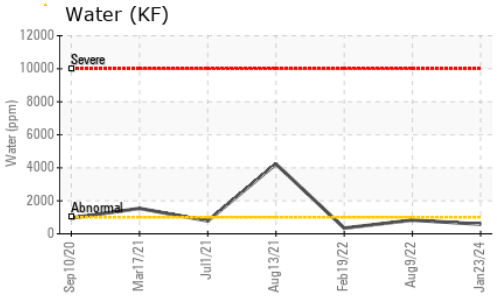
Particle Trend



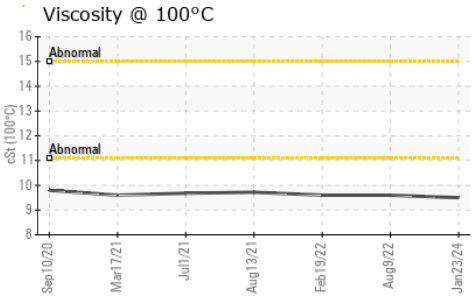
Aluminum (ppm)



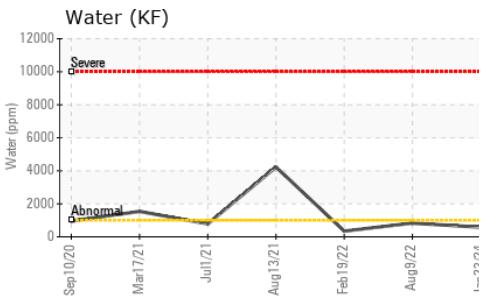
Water (KF)



Viscosity @ 100°C



Water (KF)



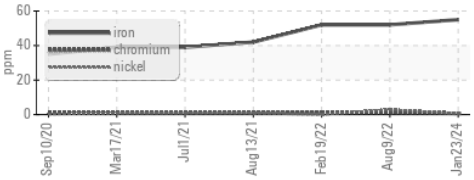
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**55.1**	54.6	54.6
Visc @ 100°C	cSt	ASTM D445		**9.5**	9.6	9.6
Viscosity Index (VI)	Scale	ASTM D2270		**156**	161	161

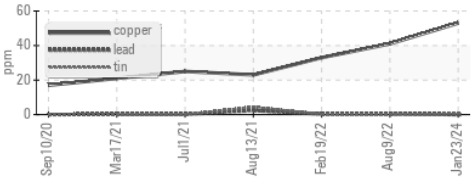
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

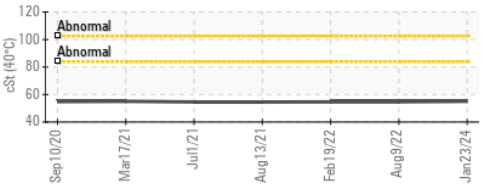
Ferrous Alloys



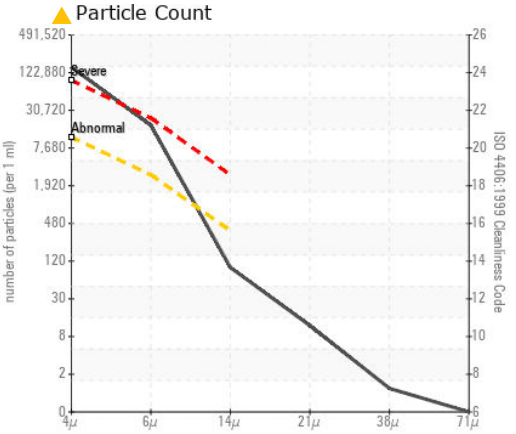
Non-ferrous Metals



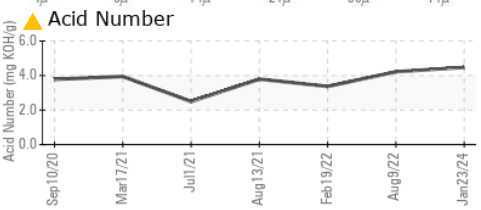
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900873 **Received** : 19 Mar 2024
Lab Number : 06123124 **Tested** : 22 Mar 2024
Unique Number : 10937275 **Diagnosed** : 22 Mar 2024 - Jonathan Hester
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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