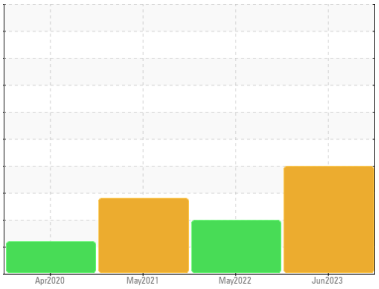
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
3191 - PLOGER
Component
Transmission (Manual)
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
The aluminum level is abnormal. The copper level is abnormal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) 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		**WC0828728**	WC0712574	WC0588416
Sample Date		Client Info		**14 Jun 2023**	20 May 2022	15 May 2021
Machine Age	mls	Client Info		**376225**	312537	233419
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	**120**	115	94
Chromium	ppm	ASTM D5185m	>5	**2**	2	2
Nickel	ppm	ASTM D5185m	>5	**1**	<1	1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>7	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	▲ **66**	37	26
Lead	ppm	ASTM D5185m	>45	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>225	▲ **261**	▲ 248	193
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
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		**226**	162	295
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**2**	6	2
Manganese	ppm	ASTM D5185m		**26**	23	23
Magnesium	ppm	ASTM D5185m		**2**	<1	1
Calcium	ppm	ASTM D5185m		**169**	165	169
Phosphorus	ppm	ASTM D5185m		**1266**	1350	1257
Zinc	ppm	ASTM D5185m		**41**	31	12
Sulfur	ppm	ASTM D5185m		**949**	1025	602

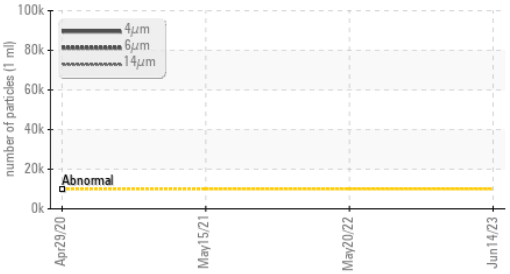
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**12**	13	9
Sodium	ppm	ASTM D5185m		**0**	<1	3
Potassium	ppm	ASTM D5185m	>20	**2**	0	<1
Water	%	ASTM D6304	>0.1	**0.083**	0.081	▲ 0.146
ppm Water	ppm	ASTM D6304	>1000	**833.2**	818.3	▲ 1460

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **80484**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **5289**	---	---
Particles >14µm		ASTM D7647	>320	**166**	---	---
Particles >21µm		ASTM D7647	>80	**43**	---	---
Particles >38µm		ASTM D7647	>20	**2**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **24/20/15**	---	---

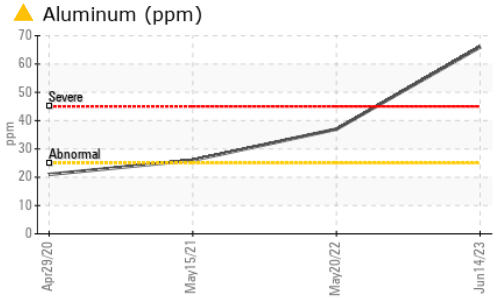
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ **4.24**	▲ 3.83	▲ 3.829

OIL ANALYSIS REPORT

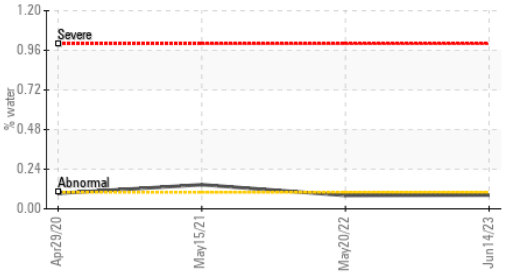
Particle Trend



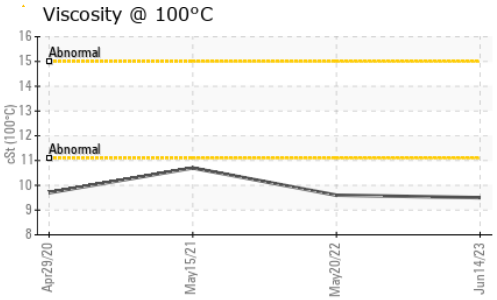
Aluminum (ppm)



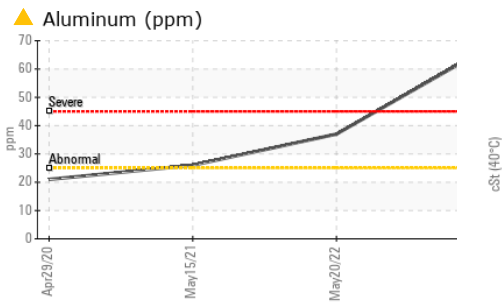
Water



Viscosity @ 100°C

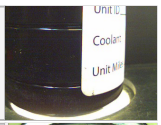
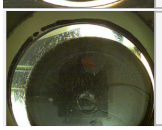
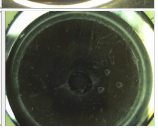


Aluminum (ppm)



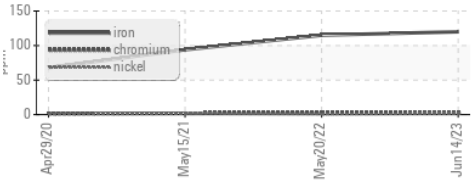
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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		**54.3**	54.5	54.8
Visc @ 100°C	cSt	ASTM D445		**9.5**	9.6	10.7
Viscosity Index (VI)	Scale	ASTM D2270		**159**	161	190

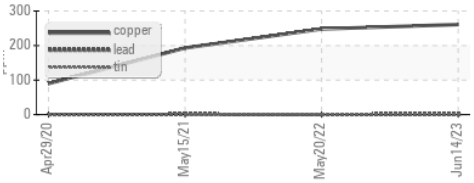
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

GRAPHS

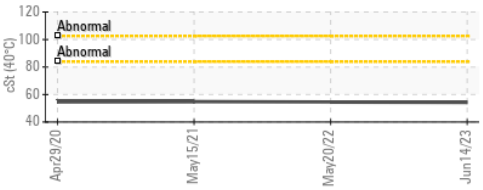
Ferrous Alloys



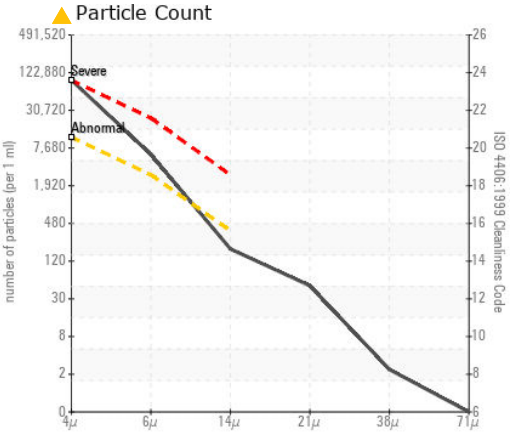
Non-ferrous Metals



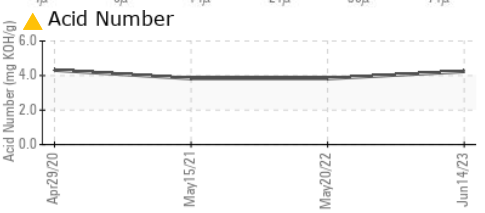
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0828728 **Received** : 19 Jul 2023
Lab Number : 05902278 **Diagnosed** : 21 Jul 2023
Unique Number : 10563634 **Diagnostician** : 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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