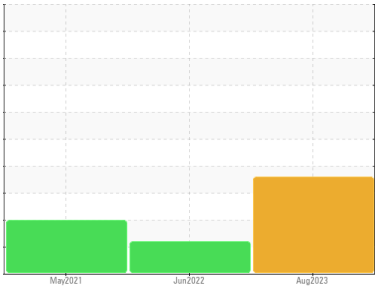
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
3196 - PLOGER
Component
Transmission (Manual)
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Bearing and/or gear wear is indicated.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0853870**	WC0692994	WC0604652
Sample Date		Client Info		**02 Aug 2023**	10 Jun 2022	28 May 2021
Machine Age	mls	Client Info		**417877**	342640	232937
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	▲ **232**	27	▲ 204
Chromium	ppm	ASTM D5185m	>5	**4**	<1	3
Nickel	ppm	ASTM D5185m	>5	**<1**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>7	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	▲ **26**	<1	17
Lead	ppm	ASTM D5185m	>45	**<1**	0	<1
Copper	ppm	ASTM D5185m	>225	▲ **151**	<1	92
Tin	ppm	ASTM D5185m	>10	**<1**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**145**	13	230
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**3**	0	2
Manganese	ppm	ASTM D5185m		**24**	<1	22
Magnesium	ppm	ASTM D5185m		**2**	30	6
Calcium	ppm	ASTM D5185m		**172**	0	197
Phosphorus	ppm	ASTM D5185m		**1172**	194	1195
Zinc	ppm	ASTM D5185m		**48**	0	12
Sulfur	ppm	ASTM D5185m		**943**	3850	772

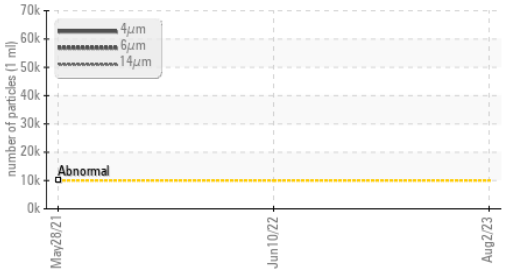
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**11**	3	16
Sodium	ppm	ASTM D5185m		**3**	11	4
Potassium	ppm	ASTM D5185m	>20	**2**	24	2
Water	%	ASTM D6304	>0.1	**0.081**	0.065	0.078
ppm Water	ppm	ASTM D6304	>1000	**818.7**	656.9	784.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **67547**	---	---
Particles >6µm		ASTM D7647	>2500	▲ **3333**	---	---
Particles >14µm		ASTM D7647	>320	**20**	---	---
Particles >21µm		ASTM D7647	>80	**2**	---	---
Particles >38µm		ASTM D7647	>20	**0**	---	---
Particles >71µm		ASTM D7647	>4	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **23/19/11**	---	---

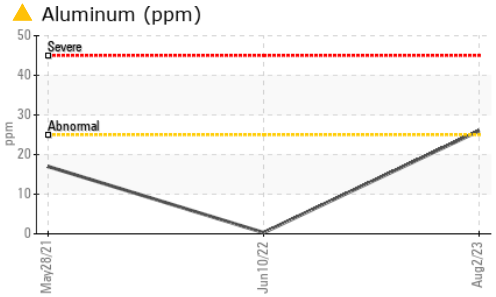
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.41**	▲ 3.59	▲ 3.677

OIL ANALYSIS REPORT

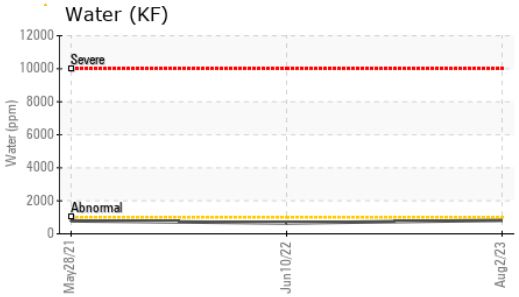
Particle Trend



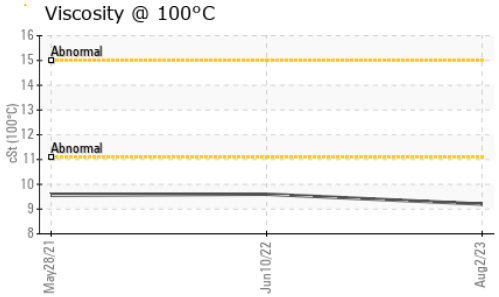
Aluminum (ppm)



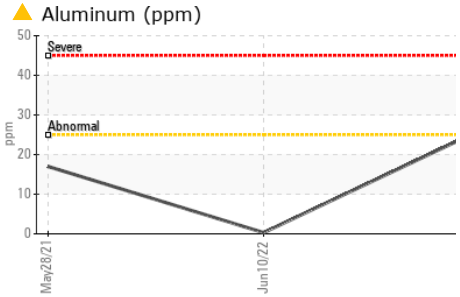
Water (KF)



Viscosity @ 100°C

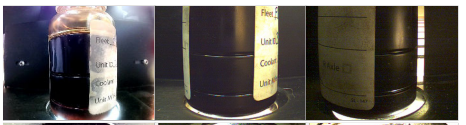


Aluminum (ppm)



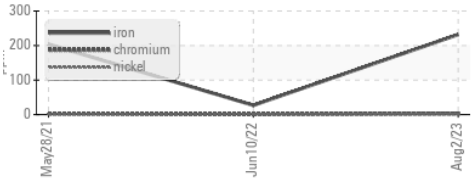
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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		**53.9**	54.2	53.86
Visc @ 100°C	cSt	ASTM D445		**9.2**	9.6	9.56
Viscosity Index (VI)	Scale	ASTM D2270		**152**	163	163

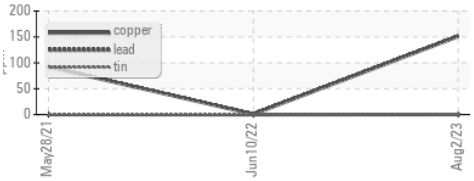
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

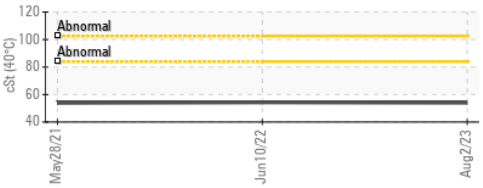
Ferrous Alloys



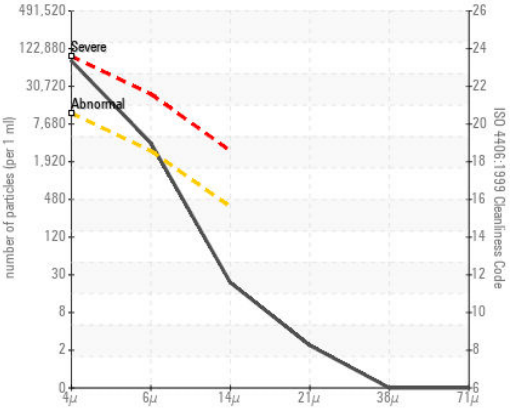
Non-ferrous Metals



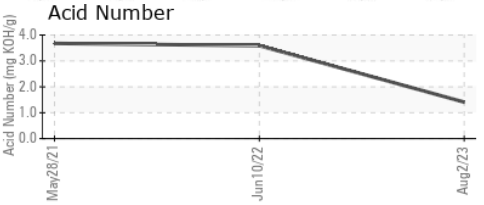
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0853870 **Received** : 22 Sep 2023
Lab Number : 05959071 **Diagnosed** : 26 Sep 2023
Unique Number : 10660284 **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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