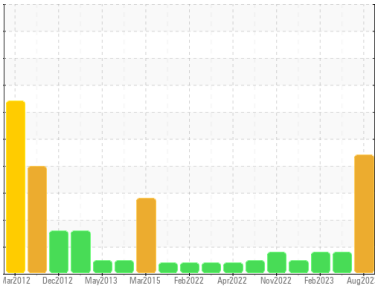
PROBLEM SUMMARY

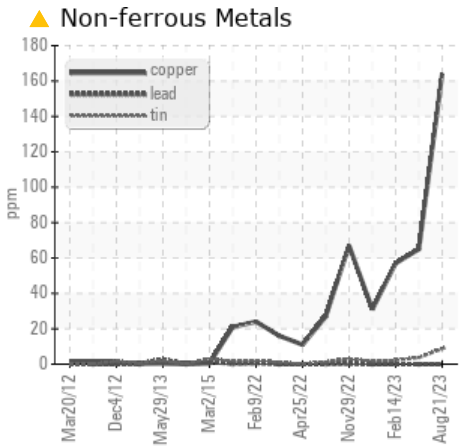
Sample Rating Trend

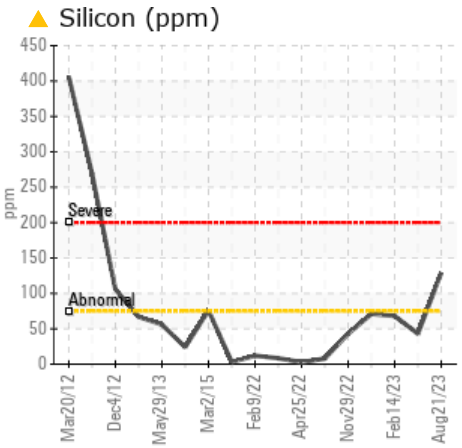


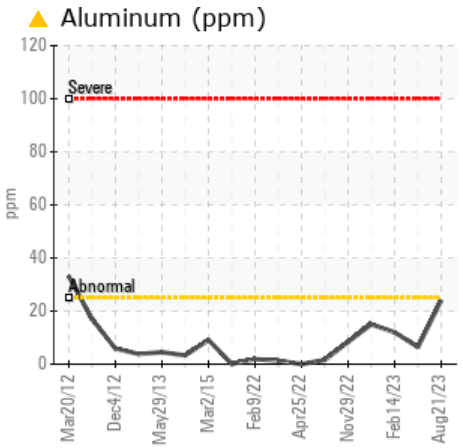
DIRT

Machine Id
8362
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W140 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>25	▲ **24**	6	12
Copper	ppm	ASTM D5185m	>50	▲ **164**	▲ 65	▲ 57
Silicon	ppm	ASTM D5185m	>75	▲ **129**	43	68
Yellow Metal	scalar	*Visual	NONE	▲ **MODER**	MODER	MODER

Customer Id: TRANEW
Sample No.: WC0837043
Lab Number: 05932340
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

12 Jul 2023 Diag: Don Baldridge

WEAR

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

14 Feb 2023 Diag: Don Baldridge

WEAR

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

27 Dec 2022 Diag: Sean Felton

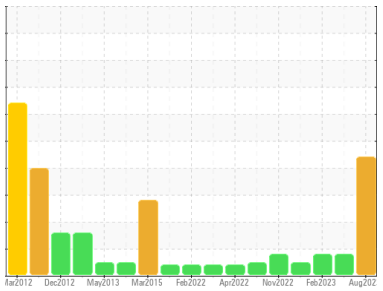
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
8362
Component
Left Final Drive
Fluid
GEAR OIL SAE 80W140 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
The copper level is abnormal. Moderate concentration of visible metal present.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition
The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0837043**	WC0831231	WC0775993
Sample Date		Client Info		**21 Aug 2023**	12 Jul 2023	14 Feb 2023
Machine Age	hrs	Client Info		**9130**	8619	7228
Oil Age	hrs	Client Info		**519**	237	619
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**158**	67	60
Chromium	ppm	ASTM D5185m	>10	**3**	1	0
Nickel	ppm	ASTM D5185m	>10	**10**	2	2
Titanium	ppm	ASTM D5185m		**2**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ **24**	6	12
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>50	▲ **164**	▲ 65	▲ 57
Tin	ppm	ASTM D5185m	>10	**9**	4	2
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	400	**205**	155	166
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**0**	<1	0
Manganese	ppm	ASTM D5185m		**2**	1	1
Magnesium	ppm	ASTM D5185m	12	**2**	2	5
Calcium	ppm	ASTM D5185m	150	**118**	220	211
Phosphorus	ppm	ASTM D5185m	1650	**380**	395	341
Zinc	ppm	ASTM D5185m	125	**25**	52	62
Sulfur	ppm	ASTM D5185m	22500	**2324**	2694	1633

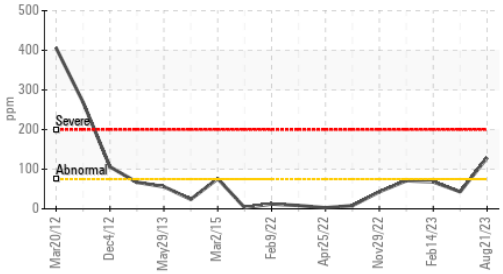
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **129**	43	68
Sodium	ppm	ASTM D5185m		**1**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**5**	2	1

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	▲ **MODER**	MODER	MODER
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	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	263	**102**	106	107

OIL ANALYSIS REPORT

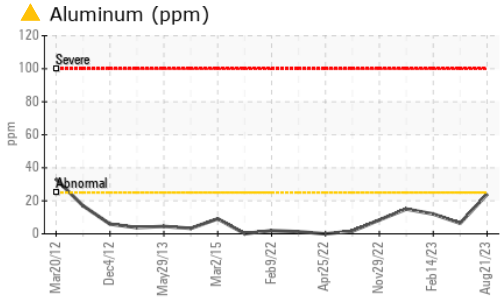
Silicon (ppm)



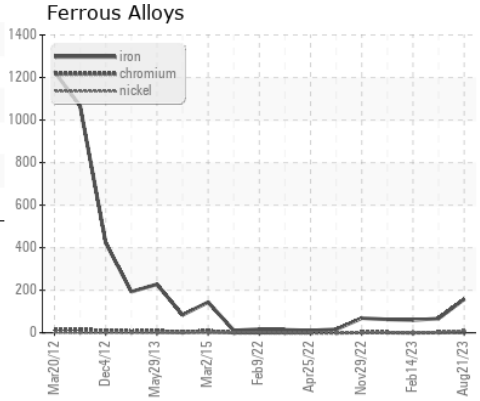
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

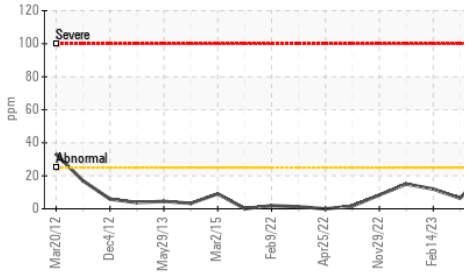
Aluminum (ppm)



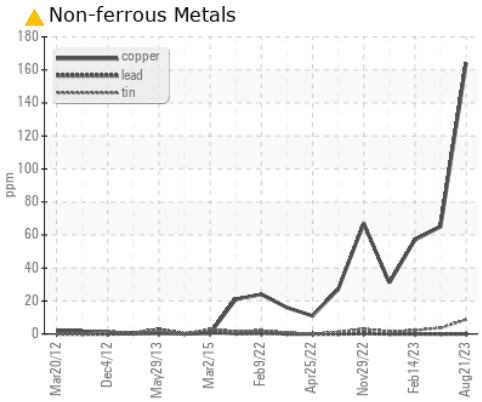
Ferrous Alloys



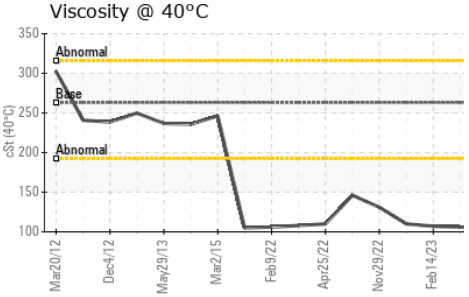
Aluminum (ppm)



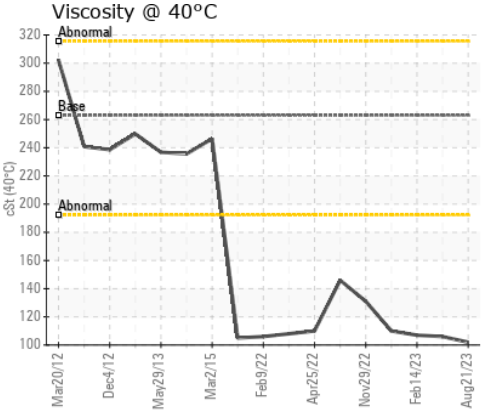
Non-ferrous Metals



Viscosity @ 40°C



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0837043 **Received** : 23 Aug 2023
Lab Number : 05932340 **Diagnosed** : 25 Aug 2023
Unique Number : 10617611 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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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