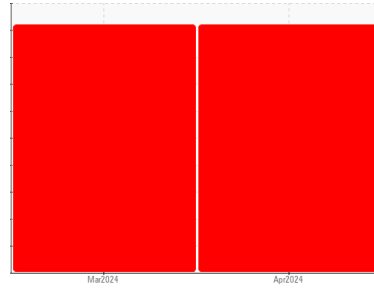




# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

Action Newark

Machine Id

TUG 5600 - TUG

Component

Rear Axle

Fluid

GEAR OIL SAE 80W90 (--- GAL)

## DIAGNOSIS

### Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

Gear wear is indicated.

### Contamination

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

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0924894	WC0850650	---
Sample Date	Client Info		12 Apr 2024	20 Mar 2024	---
Machine Age	hrs	Client Info	0	4881	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	SEVERE	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 2744	▲ 2654	---
Chromium	ppm	ASTM D5185m >10	▲ 12	▲ 11	---
Nickel	ppm	ASTM D5185m >10	4	3	---
Titanium	ppm	ASTM D5185m	3	1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	● 23	● 21	---
Lead	ppm	ASTM D5185m >25	<1	0	---
Copper	ppm	ASTM D5185m >50	7	6	---
Tin	ppm	ASTM D5185m >10	0	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	31	25	---
Barium	ppm	ASTM D5185m 200	2	2	---
Molybdenum	ppm	ASTM D5185m 12	2	1	---
Manganese	ppm	ASTM D5185m	50	46	---
Magnesium	ppm	ASTM D5185m 12	8	7	---
Calcium	ppm	ASTM D5185m 150	218	224	---
Phosphorus	ppm	ASTM D5185m 1650	488	465	---
Zinc	ppm	ASTM D5185m 125	127	121	---
Sulfur	ppm	ASTM D5185m 22500	20368	20458	---

## CONTAMINANTS

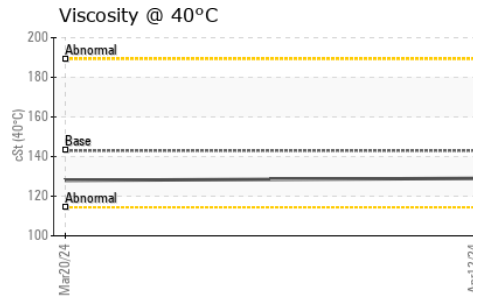
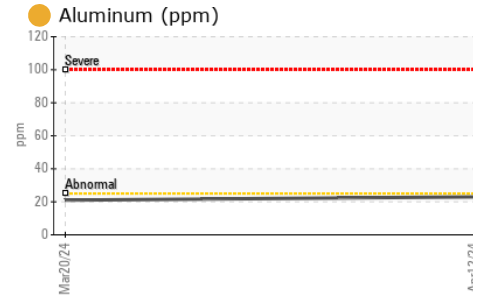
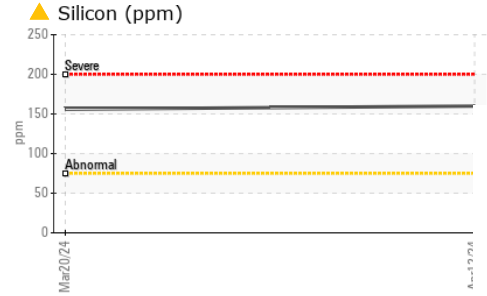
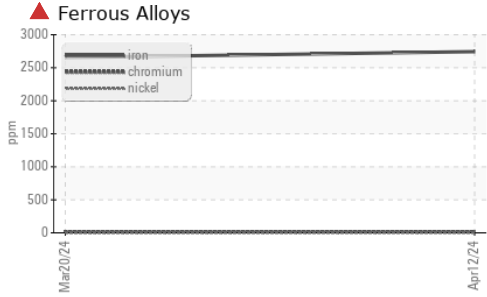
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 160	▲ 156	---
Sodium	ppm	ASTM D5185m >170	5	5	---
Potassium	ppm	ASTM D5185m >20	5	3	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	---
Free Water	scalar	*Visual	NEG	NEG	---



# OIL ANALYSIS REPORT



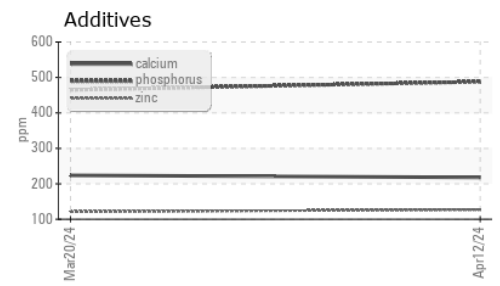
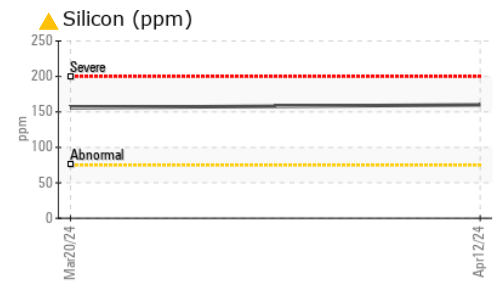
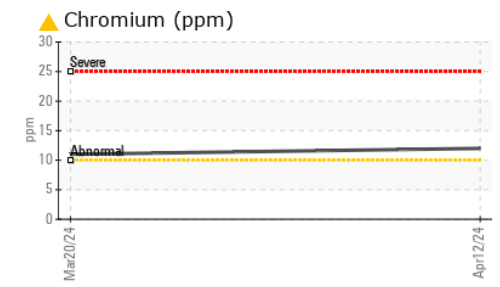
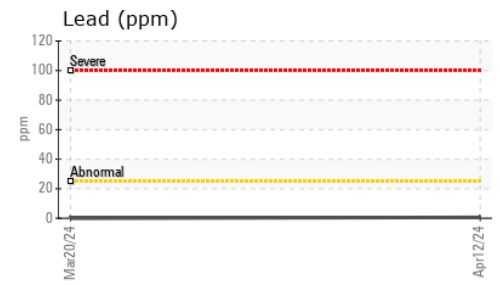
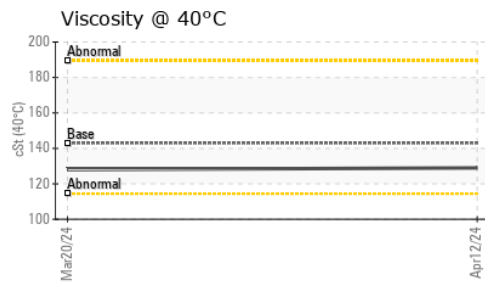
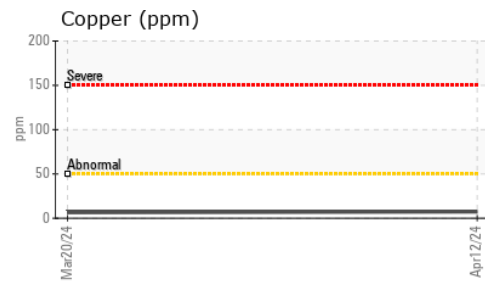
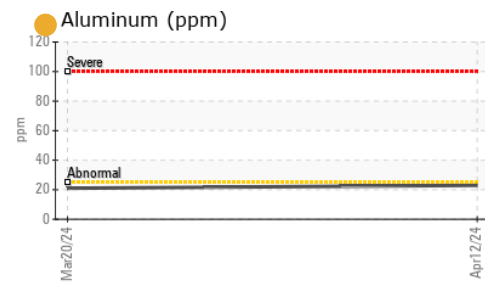
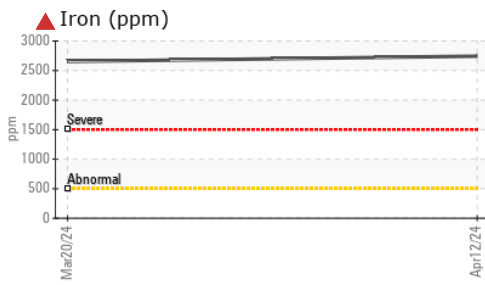
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	129	128

Visc @ 40°C	cSt	ASTM D445	143	129	128	---
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SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924894      **Received** : 23 Apr 2024  
**Lab Number** : **06158041**      **Tested** : 24 Apr 2024  
**Unique Number** : 10993464      **Diagnosed** : 25 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1

**INTERSTATE WASTE-NEWARK**  
 110 EVERGREEN AVE, BAY 3  
 NEWARK, NJ  
 US 07114  
 Contact: Robert Witynski  
 RWitynski@interstatewaste.com

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)