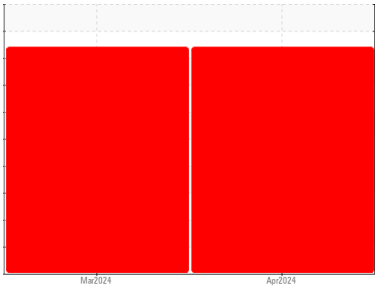
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
Action Newark
Machine Id
TUG 5600 - TUG
Component
Transmission (Auto)
Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend that you drain the fluid and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
The iron level is severe. The aluminum level is abnormal.

▲ Contamination
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0924895**	WC0850651	---
Sample Date		Client Info		**12 Apr 2024**	25 Mar 2024	---
Machine Age	hrs	Client Info		**4882**	4851	---
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	>0.1	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>160	▲ **330**	▲ 324	---
Chromium	ppm	ASTM D5185m	>5	**<1**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m	>5	**0**	0	---
Aluminum	ppm	ASTM D5185m	>50	▲ **63**	▲ 60	---
Lead	ppm	ASTM D5185m	>50	**9**	10	---
Copper	ppm	ASTM D5185m	>225	**143**	143	---
Tin	ppm	ASTM D5185m	>10	**9**	9	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**39**	38	---
Barium	ppm	ASTM D5185m		**1**	0	---
Molybdenum	ppm	ASTM D5185m		**2**	2	---
Manganese	ppm	ASTM D5185m		**10**	10	---
Magnesium	ppm	ASTM D5185m		**17**	13	---
Calcium	ppm	ASTM D5185m		**237**	229	---
Phosphorus	ppm	ASTM D5185m		**252**	258	---
Zinc	ppm	ASTM D5185m		**160**	151	---
Sulfur	ppm	ASTM D5185m		**1990**	1878	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ **25**	▲ 24	---
Sodium	ppm	ASTM D5185m		**14**	15	---
Potassium	ppm	ASTM D5185m	>20	**8**	8	---

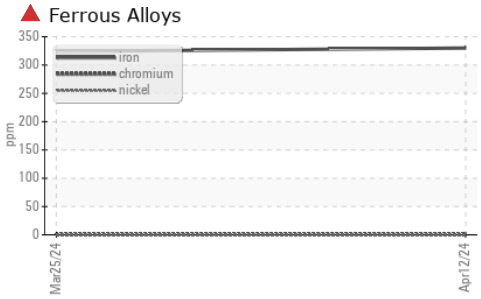
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

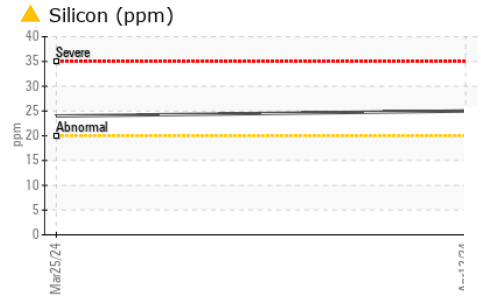
OIL ANALYSIS REPORT

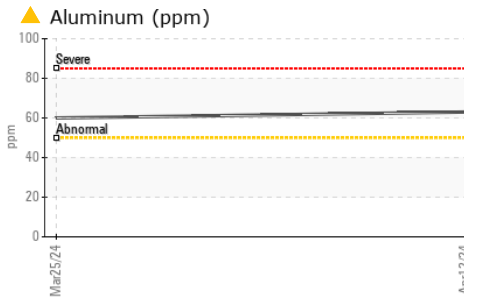
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**29.3**	29.5	---

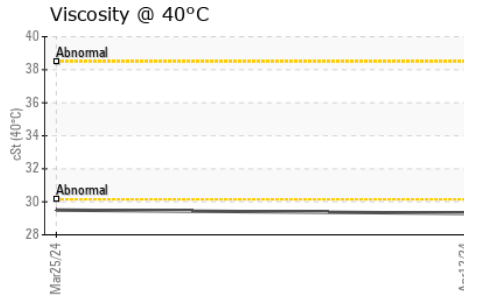
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

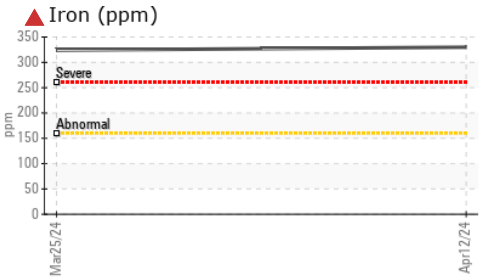
GRAPHS

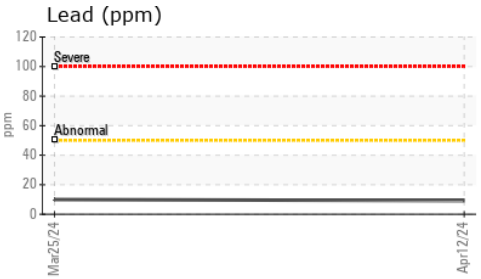


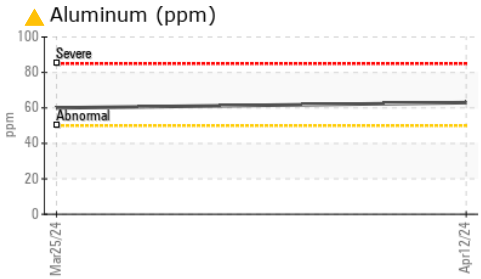


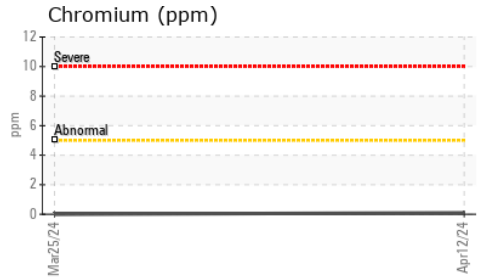


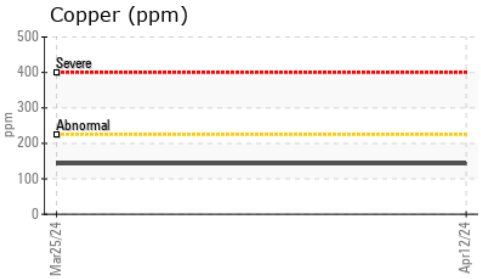


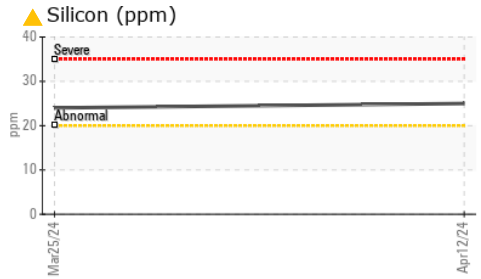


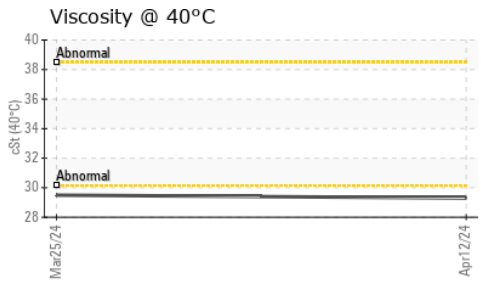


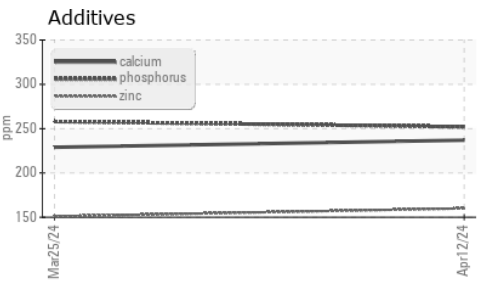












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0924895
Lab Number : 06158150
Unique Number : 10993573
Test Package : MOB 1

Received : 23 Apr 2024
Tested : 24 Apr 2024
Diagnosed : 25 Apr 2024 - Jonathan Hester

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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