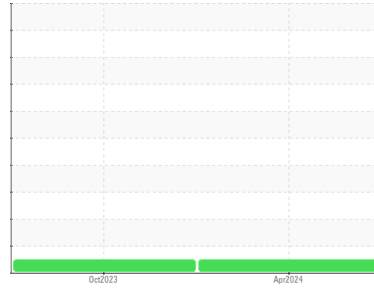




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**TORO 30609/4000-D 115625/30609 (S/N A183642726)**  
 Component  
**Front Hydrostatic**  
 Fluid  
**TRC UTF RED (8 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>TR06159114</b>	TR05978234	---
Sample Date	Client Info			<b>23 Apr 2024</b>	11 Oct 2023	---
Machine Age	hrs	Client Info		<b>2878</b>	2767	---
Oil Age	hrs	Client Info		<b>1526</b>	1942	---
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>10</b>	10	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>50	<b>14</b>	13	---
Copper	ppm	ASTM D5185m	>200	<b>13</b>	15	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>87</b>	84	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>8</b>	11	---
Calcium	ppm	ASTM D5185m	4200	<b>2752</b>	2492	---
Phosphorus	ppm	ASTM D5185m	1100	<b>1074</b>	1020	---
Zinc	ppm	ASTM D5185m	2000	<b>1095</b>	1013	---
Sulfur	ppm	ASTM D5185m		<b>5246</b>	4249	---

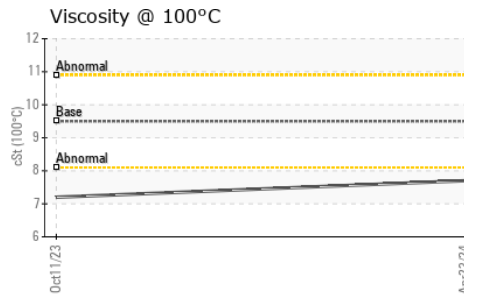
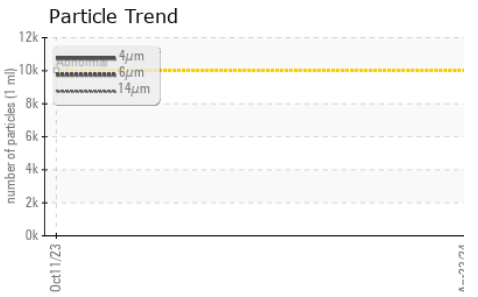
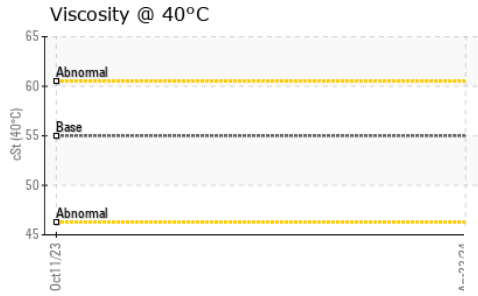
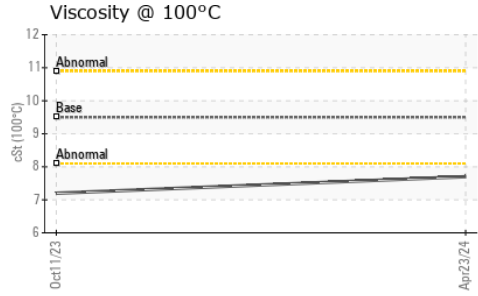
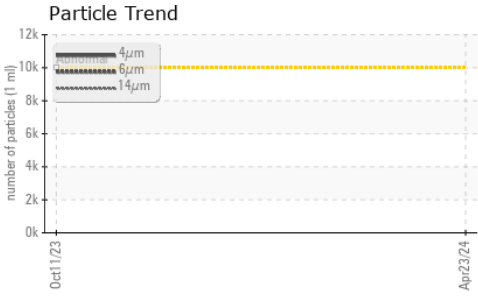
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>10</b>	10	---
Sodium	ppm	ASTM D5185m		<b>5</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>2804</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>407</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>26</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>8</b>	---	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/16/12</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.92</b>	1.10	---



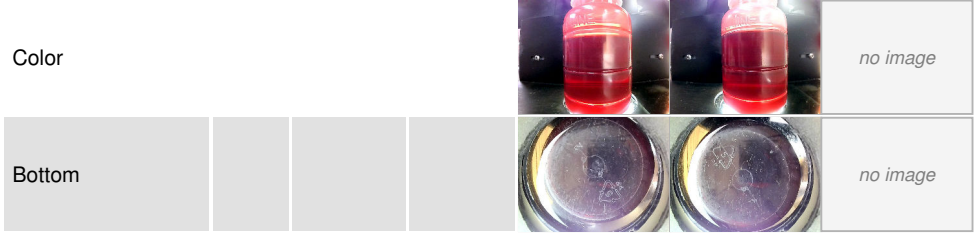
# OIL ANALYSIS REPORT



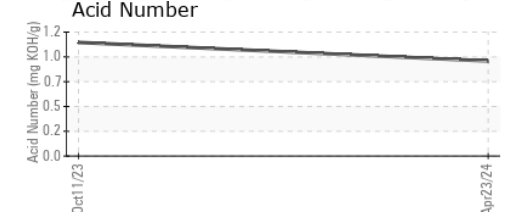
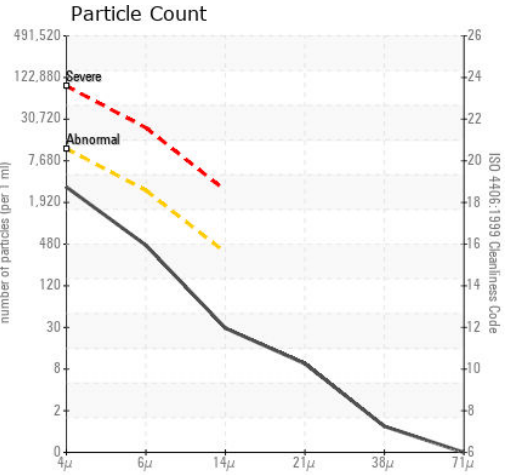
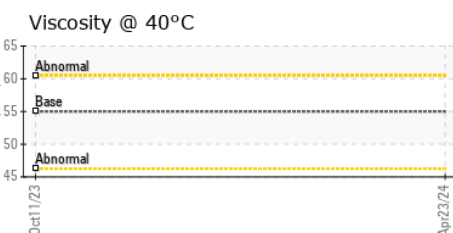
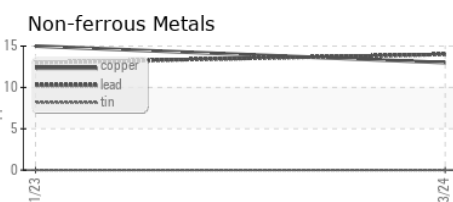
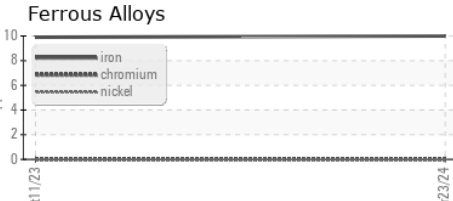
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	51.4	---
Visc @ 100°C	cSt	ASTM D445	9.5	7.7	7.2
Viscosity Index (VI)	Scale	ASTM D2270	157	114	---

### SAMPLE IMAGES



### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06159114      **Received** : 24 Apr 2024  
**Lab Number** : 06159114      **Tested** : 25 Apr 2024  
**Unique Number** : 10994537      **Diagnosed** : 26 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, VI )

**OVERLAND PARK GC CCD**  
 1801 S HURON ST  
 DENVER, CO  
 US 80223  
 Contact: JAMES WEST

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

T:  
F: