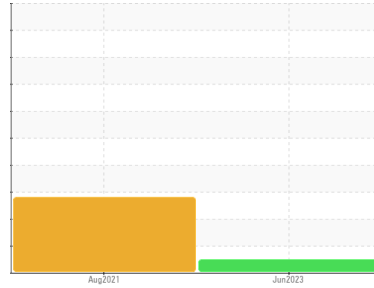




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**TORO 30809/3500G 115619 (S/N 104-4890)**

Component  
**Hydraulic System**

Fluid  
**TRC UTF RED (6 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>TR05868630</b>	TR05321020	---
Sample Date	Client Info		<b>05 Jun 2023</b>	04 Aug 2021	---
Machine Age	hrs	Client Info	<b>1436</b>	824	---
Oil Age	hrs	Client Info	<b>1096</b>	484	---
Oil Changed	Client Info		<b>Not Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>8</b>	10	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	1	---
Lead	ppm	ASTM D5185m >10	<b>7</b>	10	---
Copper	ppm	ASTM D5185m >75	<b>35</b>	18	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185m	<b>---</b>	<1	---
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>122</b>	147	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>9</b>	10	---
Calcium	ppm	ASTM D5185m 4200	<b>3700</b>	3118	---
Phosphorus	ppm	ASTM D5185m 1100	<b>1247</b>	1101	---
Zinc	ppm	ASTM D5185m 2000	<b>1464</b>	1184	---
Sulfur	ppm	ASTM D5185m	<b>4075</b>	4185	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>11</b>	8	---
Sodium	ppm	ASTM D5185m	<b>7</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	---

## FLUID CLEANLINESS

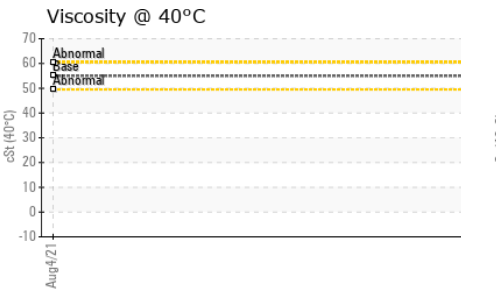
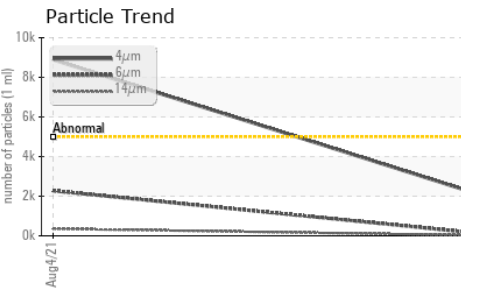
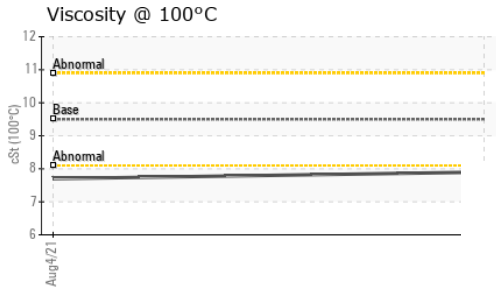
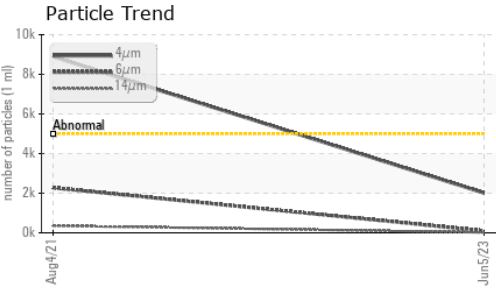
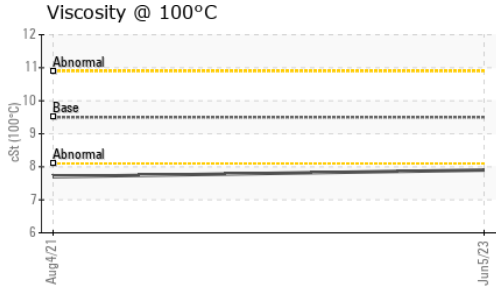
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>2007</b>	▲ 8890	---
Particles >6µm	ASTM D7647	>1300	<b>99</b>	▲ 2274	---
Particles >14µm	ASTM D7647	>160	<b>16</b>	▲ 358	---
Particles >21µm	ASTM D7647	>40	<b>6</b>	▲ 141	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	7	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/14/11</b>	▲ 20/18/16	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.03</b>	1.022	---



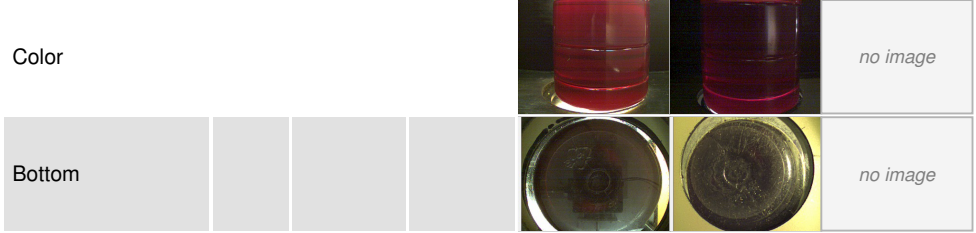
# OIL ANALYSIS REPORT



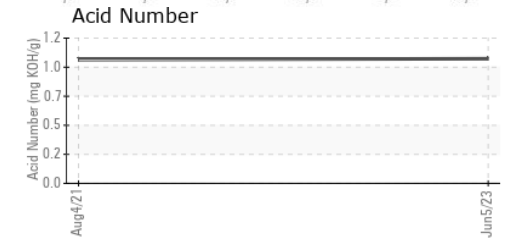
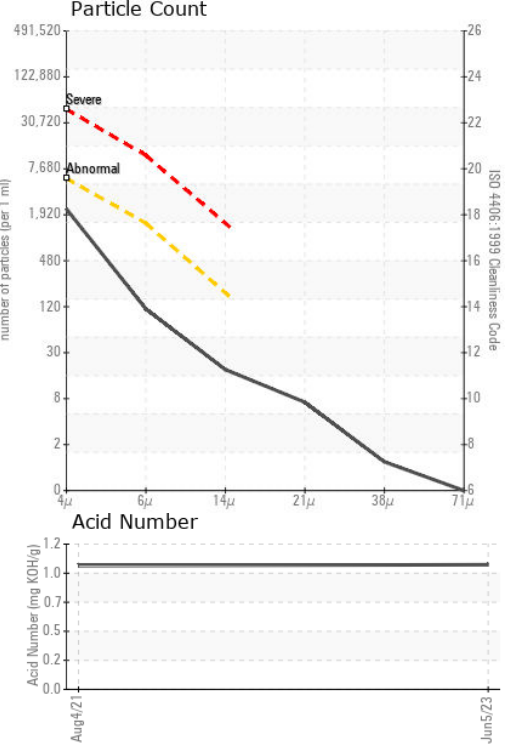
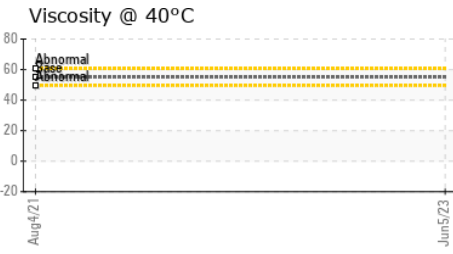
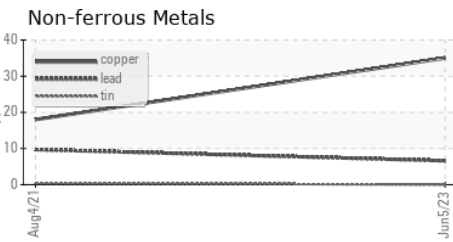
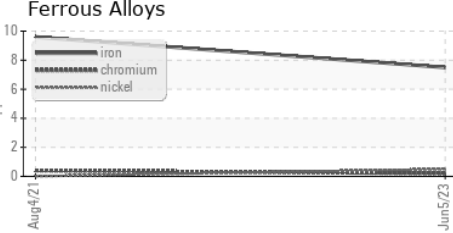
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	9.5	<b>7.9</b>	7.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05868630 **Received** : 08 Jun 2023  
**Lab Number** : **05868630** **Diagnosed** : 13 Jun 2023  
**Unique Number** : 10508414 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100 )

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

Certificate L2367  
 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)