

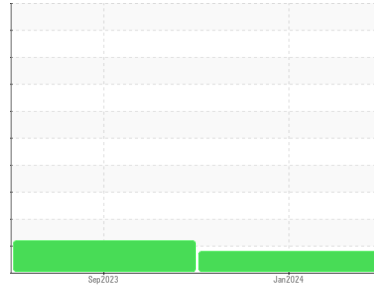
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**CATERPILLAR 775F HAUL TRUCK 6151 (S/N DLS00524)**  
Component  
**Steering**  
Fluid  
**{not provided} (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

### 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>TO10002982</b>	TO10002734	---
Sample Date	Client Info		<b>26 Jan 2024</b>	29 Sep 2023	---
Machine Age	hrs	Client Info	<b>1073</b>	542	---
Oil Age	hrs	Client Info	<b>1073</b>	533	---
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >60	<b>5</b>	3	---
Chromium	ppm	ASTM D5185m >12	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >6	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m >12	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >30	<b>1</b>	2	---
Tin	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	8	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>1</b>	2	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>194</b>	175	---
Calcium	ppm	ASTM D5185m	<b>694</b>	927	---
Phosphorus	ppm	ASTM D5185m	<b>733</b>	722	---
Zinc	ppm	ASTM D5185m	<b>850</b>	924	---
Sulfur	ppm	ASTM D5185m	<b>2655</b>	2973	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >10	<b>4</b>	4	---
Sodium	ppm	ASTM D5185m	<b>2</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---

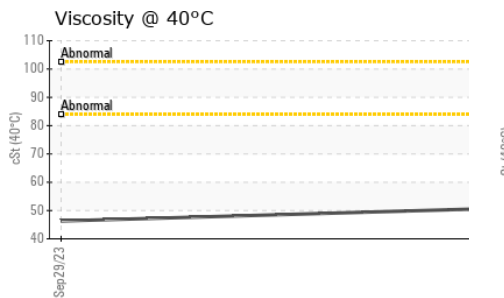
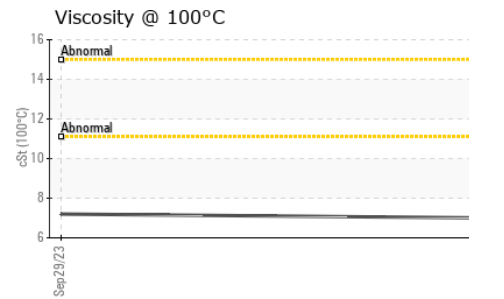
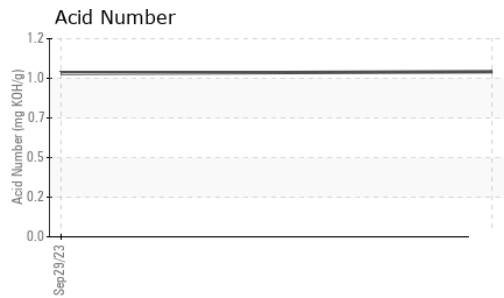
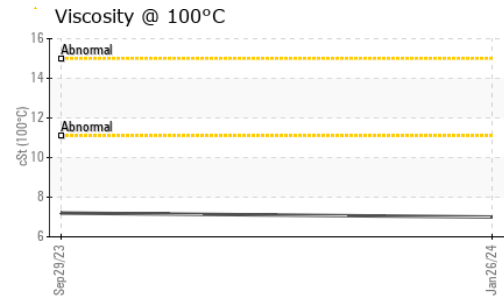
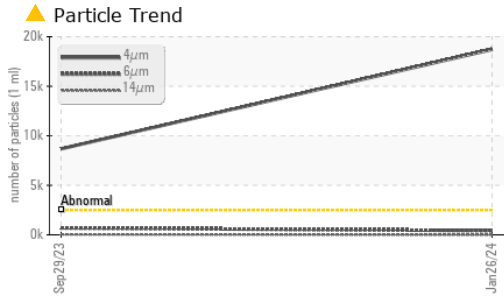
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>▲ 18713</b>	▲ 8681	---
Particles >6µm	ASTM D7647	>640	<b>418</b>	▲ 691	---
Particles >14µm	ASTM D7647	>80	<b>14</b>	40	---
Particles >21µm	ASTM D7647	>20	<b>3</b>	10	---
Particles >38µm	ASTM D7647	>4	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>▲ 21/16/11</b>	▲ 20/17/12	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.00</b>	0.99	---

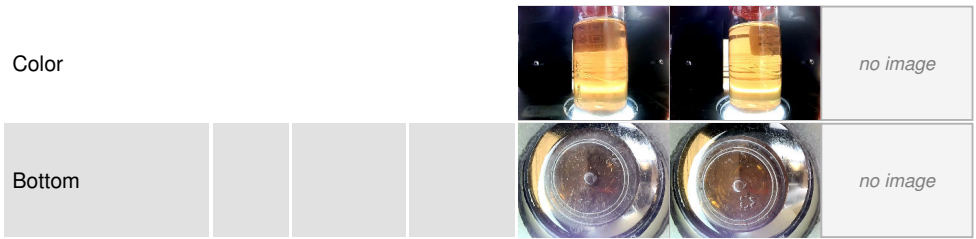
# OIL ANALYSIS REPORT



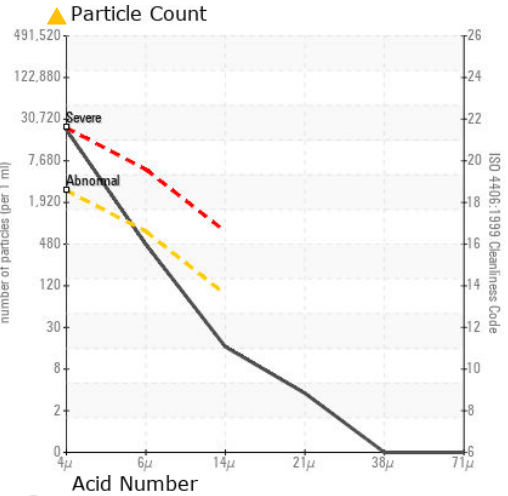
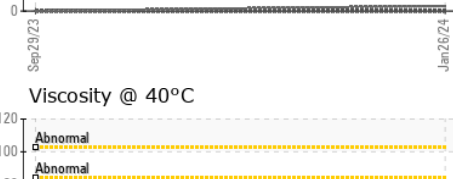
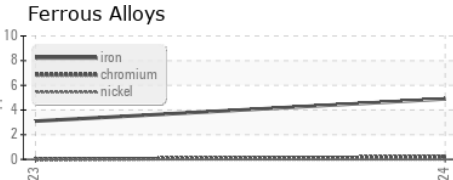
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	50.7	46.3	---
Visc @ 100°C	cSt	ASTM D445	7	7.2	---
Viscosity Index (VI)	Scale	ASTM D2270	92	115	---

**SAMPLE IMAGES**



**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002982 **Recieved** : 31 Jan 2024  
**Lab Number** : 06076370 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10858461 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, VI )

**ANCHOR STONE TULSA ROCK**  
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE  
 TULSA, OK  
 US 74137  
 Contact: SKIP SAENGERHAUSEN  
 skip@anchorstoneco.com  
 T: (918)928-4575  
 F:

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)