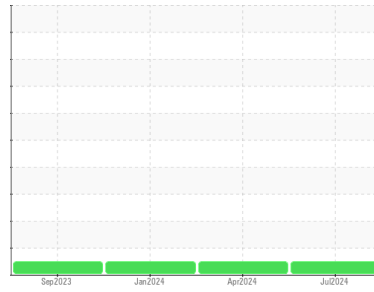


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 775F HAUL TRUCK 6151 (S/N DLS00524)**  
Component  
**Rear Right Differential**  
Fluid  
**TULCO LUBSOIL TO-4 50 (--- GAL)**

Sample Rating Trend



**NORMAL**

**DIAGNOSIS**

- Recommendation**  
Resample at the next service interval to monitor.
- Wear**  
All component wear rates are normal.
- Contamination**  
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>TO10003717</b>	TO10003024	TO10002981
Sample Date	Client Info		<b>13 Jul 2024</b>	20 Apr 2024	26 Jan 2024
Machine Age	hrs	Client Info	<b>2161</b>	1657	1073
Oil Age	hrs	Client Info	<b>2161</b>	1657	1073
Oil Changed		Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**CONTAMINATION**    method    limit/base    current    history1    history2

Water	WC Method	>.2	<b>NEG</b>	NEG	NEG
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**WEAR METALS**    method    limit/base    current    history1    history2

PQ		ASTM D8184		<b>58</b>	61	68
Iron	ppm	ASTM D5185m	>500	<b>69</b>	56	53
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m	>103	<b>10</b>	8	6
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

**ADDITIVES**    method    limit/base    current    history1    history2

Boron	ppm	ASTM D5185m		<b>5</b>	4	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	2	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	23	26
Calcium	ppm	ASTM D5185m		<b>3196</b>	2844	2672
Phosphorus	ppm	ASTM D5185m		<b>1021</b>	944	952
Zinc	ppm	ASTM D5185m		<b>1184</b>	1098	1103
Sulfur	ppm	ASTM D5185m		<b>5326</b>	4246	4294

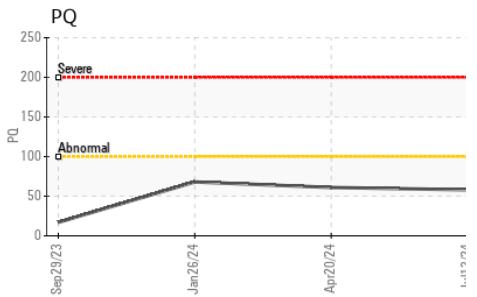
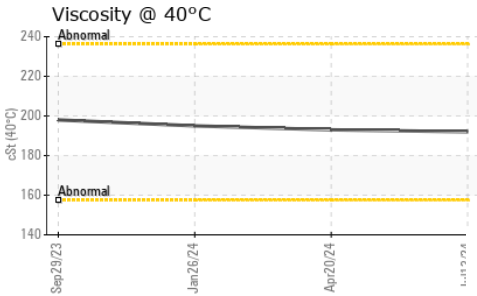
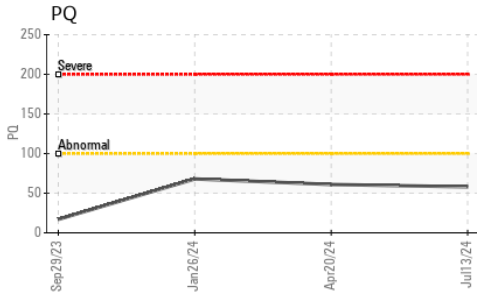
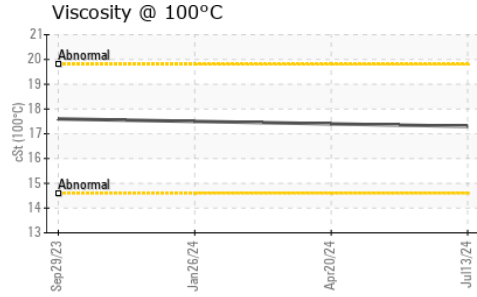
**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m	>100	<b>37</b>	35	31
Sodium	ppm	ASTM D5185m		<b>5</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	1

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.11</b>	1.17	1.04
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# OIL ANALYSIS REPORT



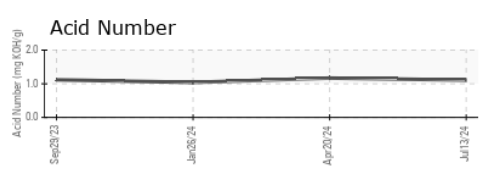
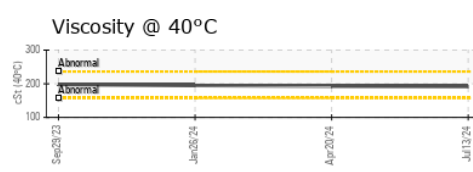
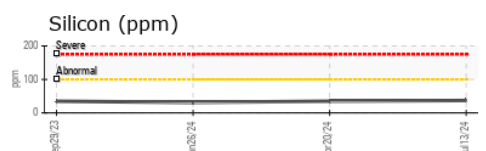
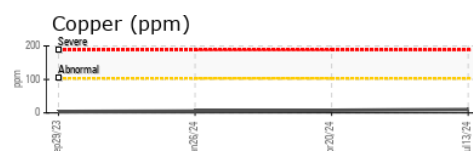
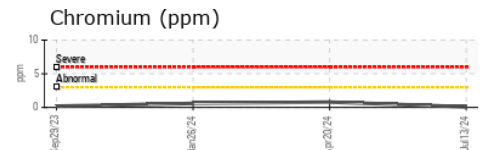
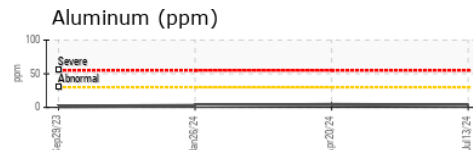
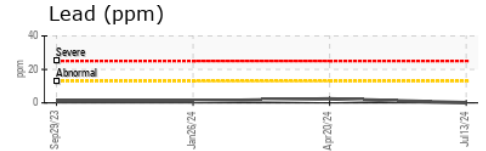
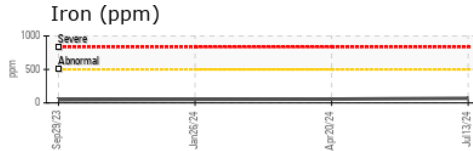
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	192	193	195
Visc @ 100°C	cSt	ASTM D445	17.3	17.4	17.5
Viscosity Index (VI)	Scale	ASTM D2270	96	96	96

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

**GRAPHS**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003717 **Received** : 18 Jul 2024  
**Lab Number** : 06241000 **Tested** : 20 Jul 2024  
**Unique Number** : 11129834 **Diagnosed** : 20 Jul 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**ANCHOR STONE TULSA ROCK**  
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE  
 TULSA, OK  
 US 74137  
 Contact: SKIP SAENGERHAUSEN  
 skip@anchorstoneco.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)

T: (918)928-4575

F: