

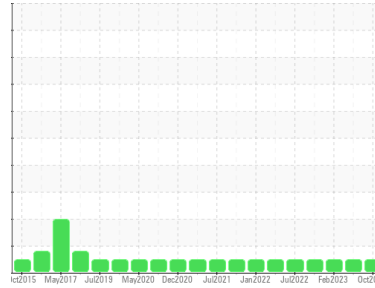
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR 775D HAUL TRUCK 6355 (S/N 6KR00297)**  
Component  
**Rear Differential**  
Fluid  
**TULCO LUBSOIL TO-4 50 (--- GAL)**



**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>TO10002756</b>	TO10002296	TO10001763
Sample Date	Client Info			<b>09 Oct 2023</b>	19 May 2023	06 Feb 2023
Machine Age	hrs	Client Info		<b>48474</b>	47928	47465
Oil Age	hrs	Client Info		<b>1503</b>	957	494
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

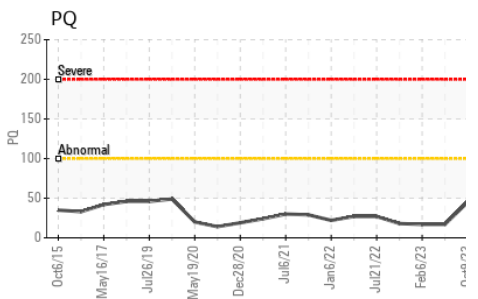
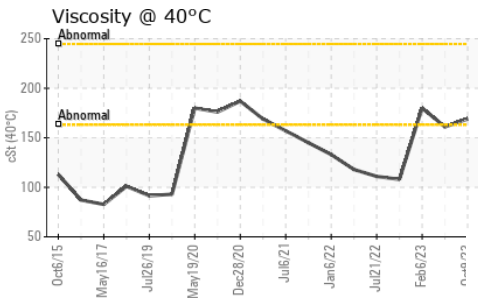
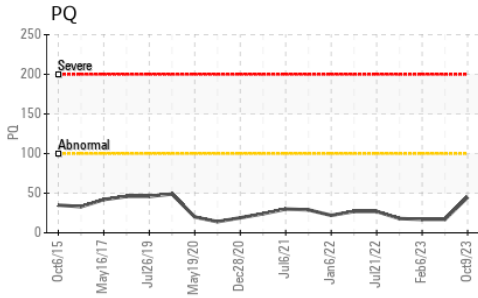
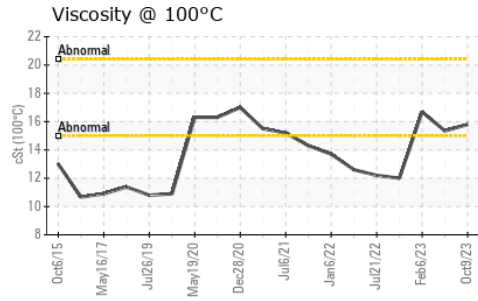
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>45</b>	17	17
Iron	ppm	ASTM D5185m	>500	<b>27</b>	11	11
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>103	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>24</b>	39	27
Calcium	ppm	ASTM D5185m		<b>3066</b>	2810	3036
Phosphorus	ppm	ASTM D5185m		<b>1047</b>	923	904
Zinc	ppm	ASTM D5185m		<b>1359</b>	1165	1110
Sulfur	ppm	ASTM D5185m		<b>5250</b>	5498	5431

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>20</b>	13	13
Sodium	ppm	ASTM D5185m		<b>4</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.967</b>	0.95	1.16

# OIL ANALYSIS REPORT

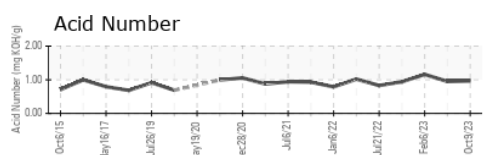
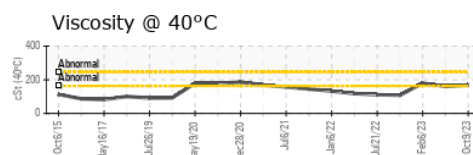
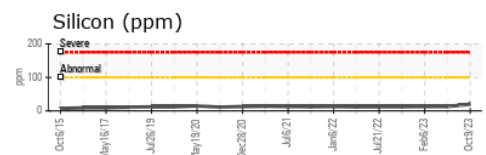
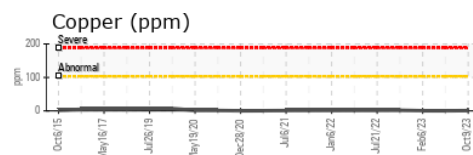
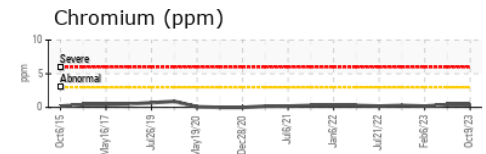
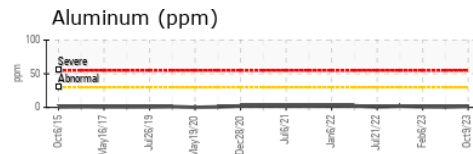
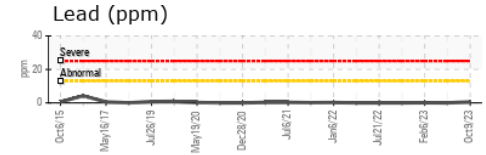
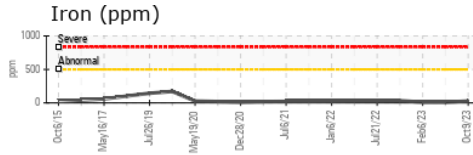


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	<b>169</b>	161	180
Visc @ 100°C	cSt	ASTM D445	<b>15.8</b>	15.34	16.7
Viscosity Index (VI)	Scale	ASTM D2270	<b>95</b>	95	97

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.** : TO10002756 **Received** : 16 Oct 2023  
**Lab Number** : **05980536** **Tested** : 17 Oct 2023  
**Unique Number** : 10697831 **Diagnosed** : 17 Oct 2023 - Wes Davis

**ANCHOR STONE TULSA ROCK**  
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE  
 TULSA, OK  
 US 74137

**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

Contact: MIKE SNYDER  
 msnyder@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.

T: (417)850-9635

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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