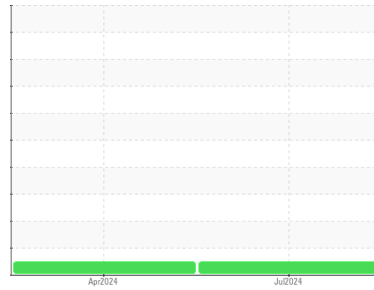


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 775F HAUL TRUCK 6151 (S/N DLS00524)
Component
Front Left Final Drive
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		TO10003679	TO10003027	---
Sample Date	Client Info		13 Jul 2024	20 Apr 2024	---
Machine Age	hrs	Client Info	2161	1657	---
Oil Age	hrs	Client Info	2161	1657	---
Oil Changed		Client Info	Not Chngd	Not Chngd	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.2	NEG	NEG	---
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WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184	>500	156	120	---
Iron	ppm	ASTM D5185m	>800	217	156	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m	>15	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>75	1	3	---
Lead	ppm	ASTM D5185m	>10	0	2	---
Copper	ppm	ASTM D5185m	>75	1	2	---
Tin	ppm	ASTM D5185m	>8	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
Cadmium	ppm	ASTM D5185m		0	<1	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		9	8	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	2	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		14	23	---
Calcium	ppm	ASTM D5185m		3080	2767	---
Phosphorus	ppm	ASTM D5185m		1010	984	---
Zinc	ppm	ASTM D5185m		1142	1090	---
Sulfur	ppm	ASTM D5185m		6233	5163	---

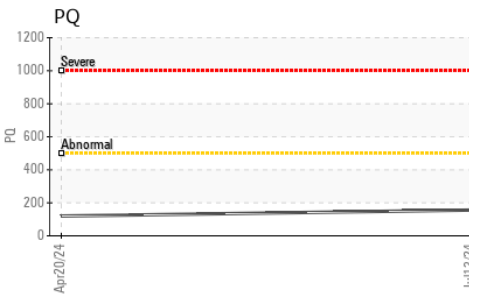
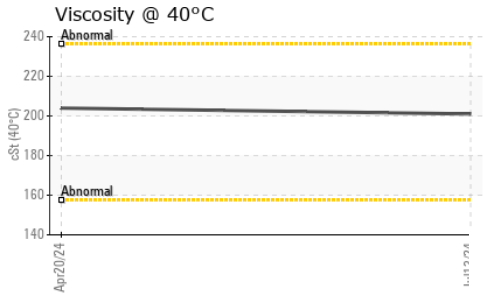
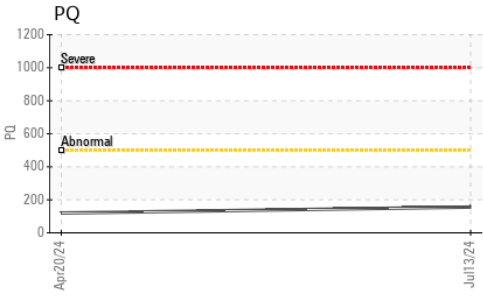
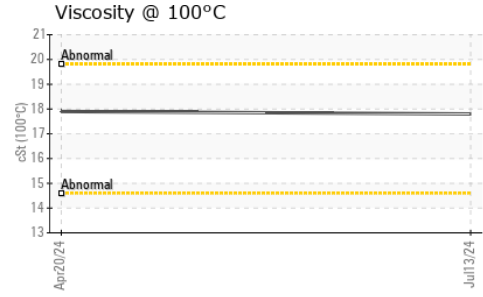
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>400	24	23	---
Sodium	ppm	ASTM D5185m		4	1	---
Potassium	ppm	ASTM D5185m	>20	0	3	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045		1.07	1.12	---
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OIL ANALYSIS REPORT

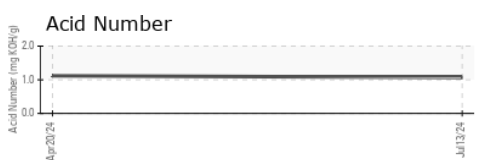
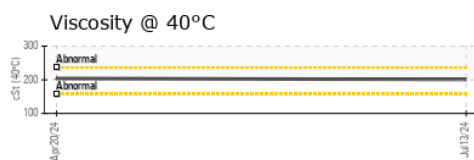
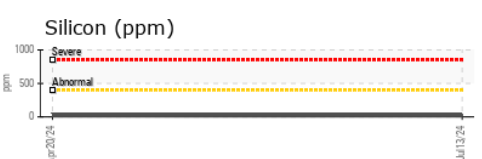
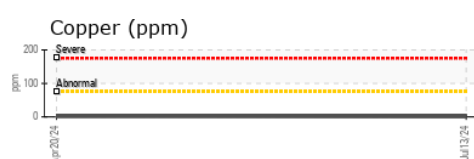
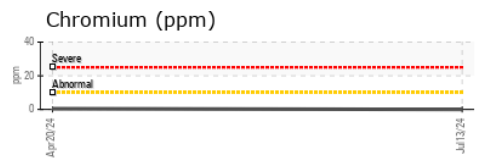
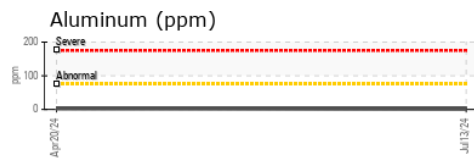
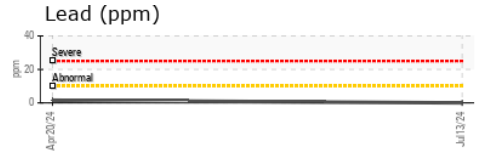
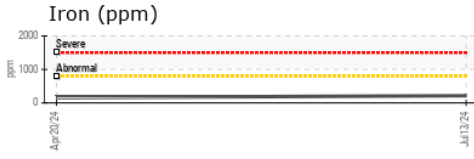


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	201	204	---
Visc @ 100°C	cSt	ASTM D445	17.8	17.9	---
Viscosity Index (VI)	Scale	ASTM D2270	96	95	---

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. : TO10003679
Lab Number : 06240988
Unique Number : 11129822
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

Received : 18 Jul 2024
Tested : 20 Jul 2024
Diagnosed : 20 Jul 2024 - Wes Davis

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 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)

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F: