



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
CATERPILLAR 775D HAUL TRUCK 6451 (S/N 6KR00212)
 Component
Left Final Drive
 Fluid
TULCO LUBSOIL CK-4 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10002087	TO1006425	---
Sample Date		Client Info		13 Jun 2024	03 Dec 2018	---
Machine Age	hrs	Client Info		43445	35936	---
Oil Age	hrs	Client Info		4465	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>500	41	66	---
Iron	ppm	ASTM D5185m	>800	52	110	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	3	---
Titanium	ppm	ASTM D5185m	>15	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>75	3	4	---
Lead	ppm	ASTM D5185m	>10	0	2	---
Copper	ppm	ASTM D5185m	>75	0	27	---
Tin	ppm	ASTM D5185m	>8	0	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

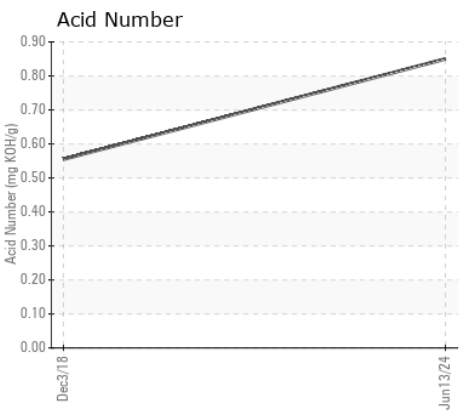
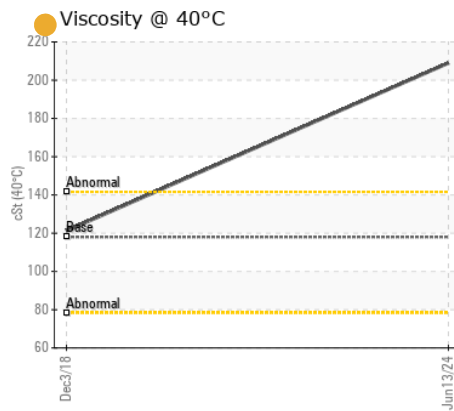
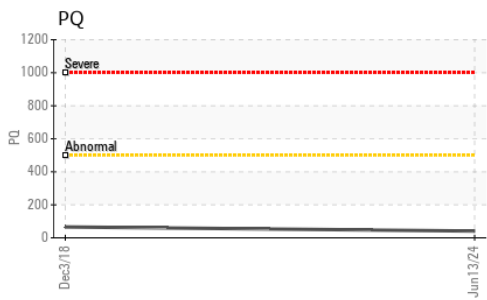
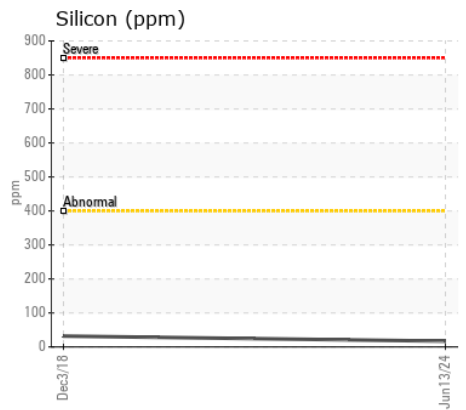
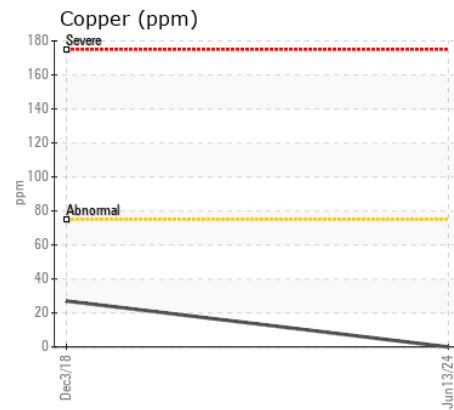
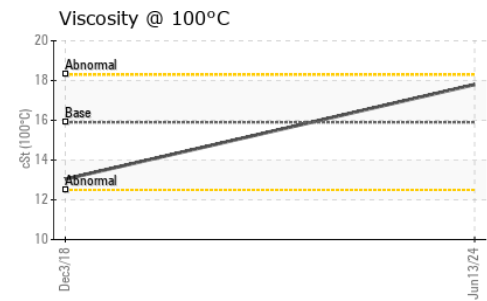
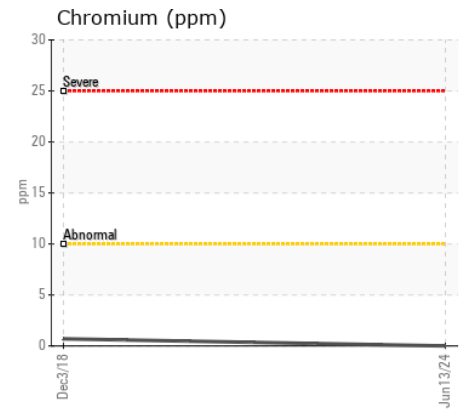
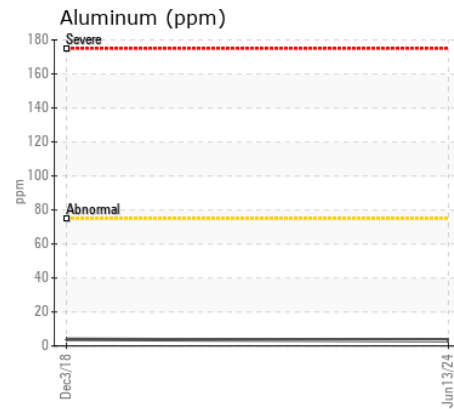
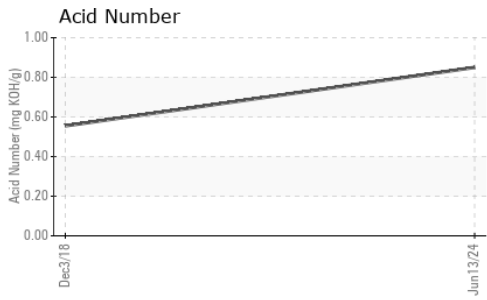
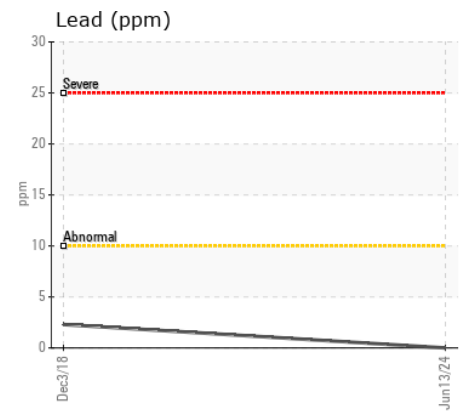
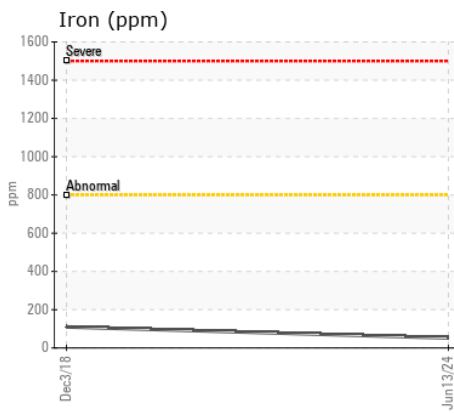
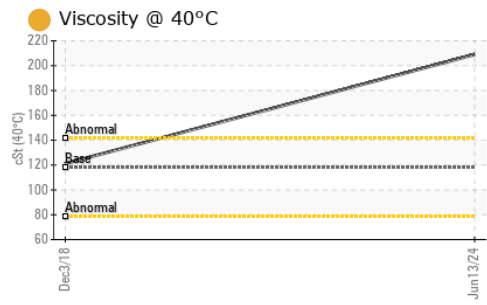
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	17	32	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Water		WC Method	>0.2	NEG	NEG	---
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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		4	3	---
Boron	ppm	ASTM D5185m		0	3	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m	65	0	2	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m	1060	19	13	---
Calcium	ppm	ASTM D5185m	1140	4610	2965	---
Phosphorus	ppm	ASTM D5185m	1170	847	760	---
Zinc	ppm	ASTM D5185m	1230	999	880	---
Sulfur	ppm	ASTM D5185m	3130	5603	4395	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.85	0.555	---
Visc @ 40°C	cSt	ASTM D445	118	209	121.2	---
Visc @ 100°C	cSt	ASTM D445	15.9	17.8	13.04	---
Viscosity Index (VI)	Scale	ASTM D2270	143	92	100	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO10002087

Lab Number : 06213641

Unique Number : 11086505

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

Received : 18 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Don Baldrige

ANCHOR STONE TULSA ROCK

TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

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Contact: DAVID MORRIS

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T:

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)