



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 775D 6441 (S/N 8AS00350)
Component
Rear Right Final Drive
Fluid
TULCO LUBSOIL TO-4 50 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10002875	TO10002424	TO10002299
Sample Date		Client Info		13 Nov 2023	09 Aug 2023	26 May 2023
Machine Age	hrs	Client Info		42811	42272	41797
Oil Age	hrs	Client Info		3602	3063	2588
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>500	66	68	85
Iron	ppm	ASTM D5185m	>800	83	86	83
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>15	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	4	2	4
Lead	ppm	ASTM D5185m	>10	1	<1	<1
Copper	ppm	ASTM D5185m	>75	3	3	1
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

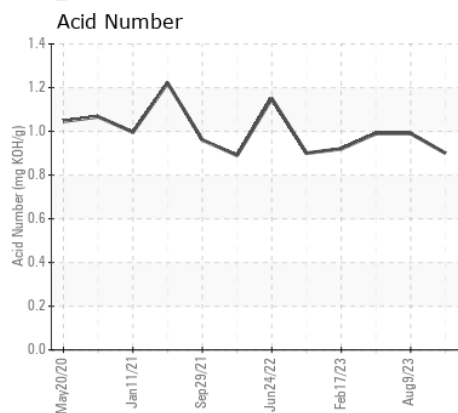
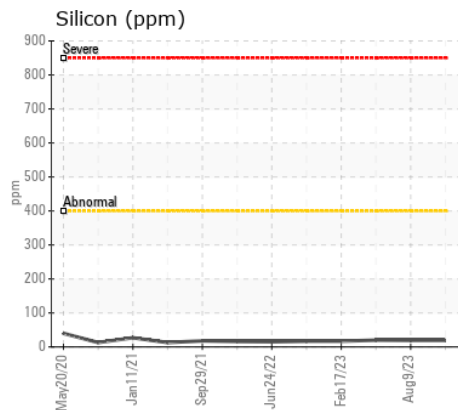
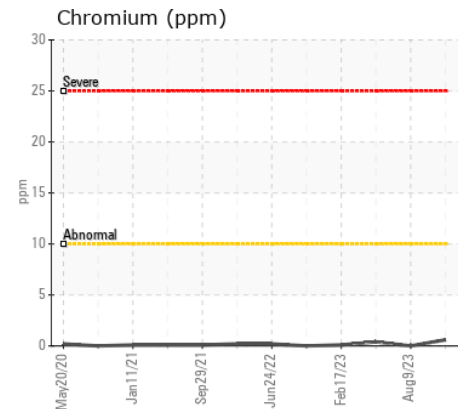
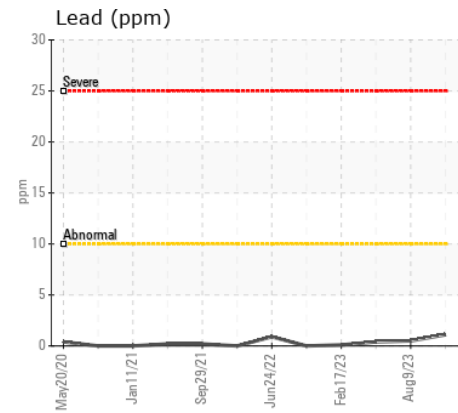
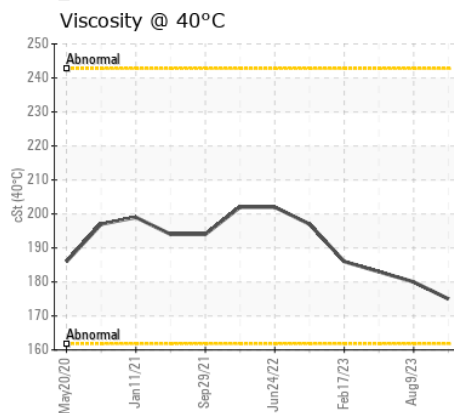
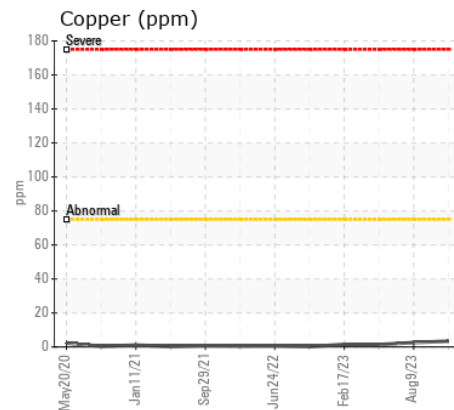
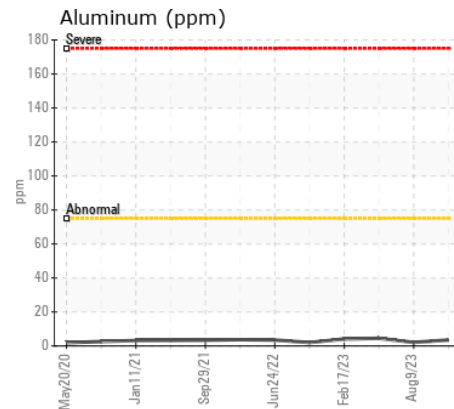
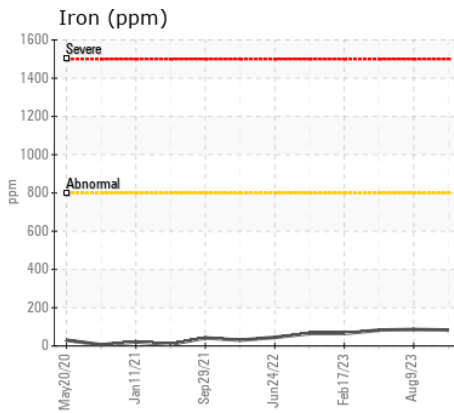
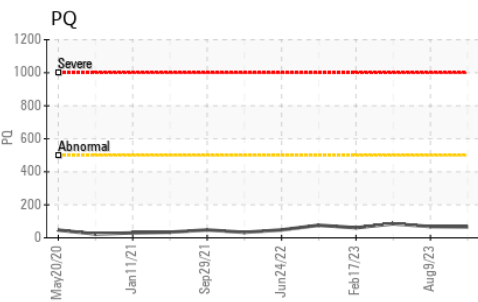
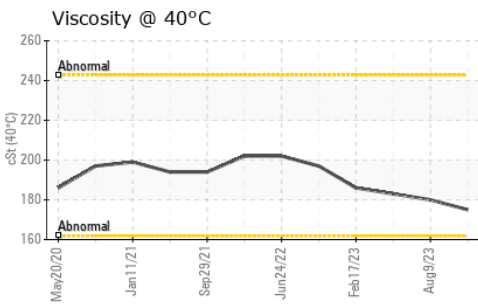
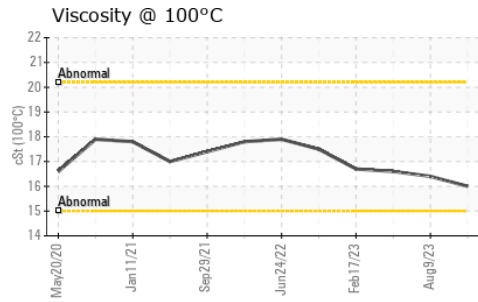
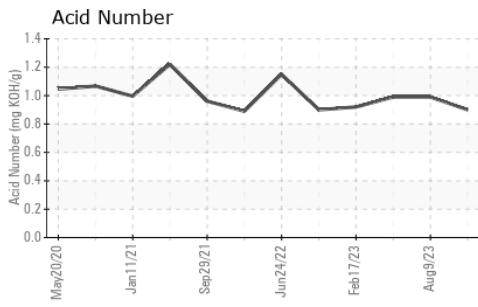
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	19	19	20
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	5	4
Boron	ppm	ASTM D5185m		0	3	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		0	29	28
Calcium	ppm	ASTM D5185m		3863	4193	4444
Phosphorus	ppm	ASTM D5185m		681	817	853
Zinc	ppm	ASTM D5185m		973	1024	1064
Sulfur	ppm	ASTM D5185m		4204	5525	5901
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	0.99	0.99
Visc @ 40°C	cSt	ASTM D445		175	180	183
Visc @ 100°C	cSt	ASTM D445		16.0	16.4	16.6
Viscosity Index (VI)	Scale	ASTM D2270		93	94	94



Certificate L2367

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

Sample No. : TO10002875

Lab Number : 06011567

Unique Number : 10750711

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

Received : 17 Nov 2023

Tested : 20 Nov 2023

Diagnosed : 20 Nov 2023 - Wes Davis

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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