



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[05W46075]

Machine Id

CATERPILLAR 950GC C276161 (S/N CAT00950JM5T05442)

Component

Transmission (Manual)

Fluid

CAT TDTO SAE 50 (40 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: SPECIAL APPLICATION TRANSMISSION OIL, IS THE OIL TYPE, CAT IS THE BRAND)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211355	JR0203113	JR0195887
Sample Date		Client Info		17 Apr 2024	15 Feb 2024	30 Nov 2023
Machine Age	hrs	Client Info		3482	3016	2492
Oil Age	hrs	Client Info		466	2508	508
Filter Age	hrs	Client Info		466	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	16	14	18
Iron	ppm	ASTM D5185m	>200	8	15	11
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>7	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	1	1	1
Lead	ppm	ASTM D5185m	>45	5	12	11
Copper	ppm	ASTM D5185m	>225	35	106	87
Tin	ppm	ASTM D5185m	>10	1	2	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

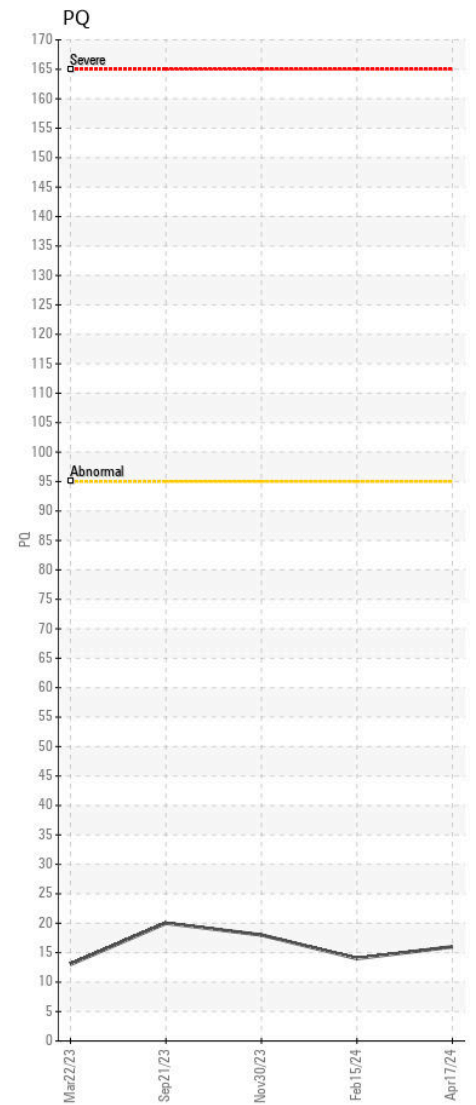
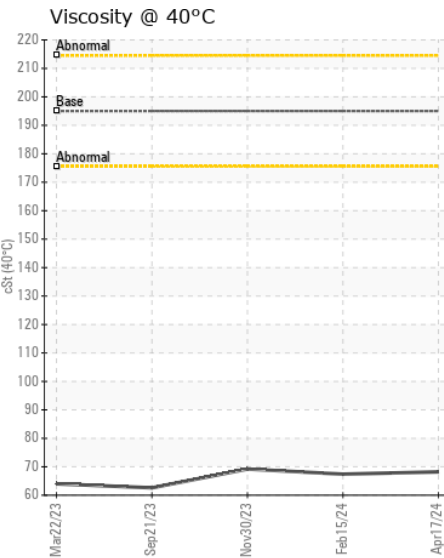
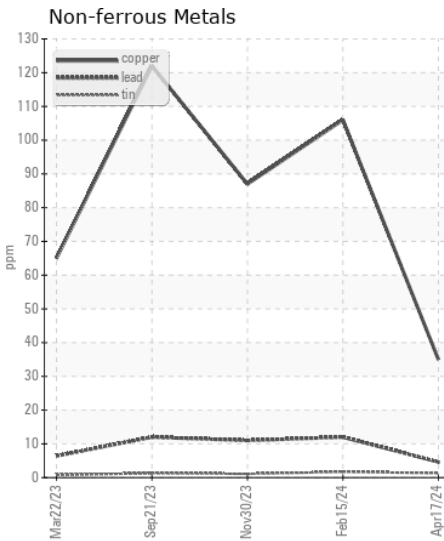
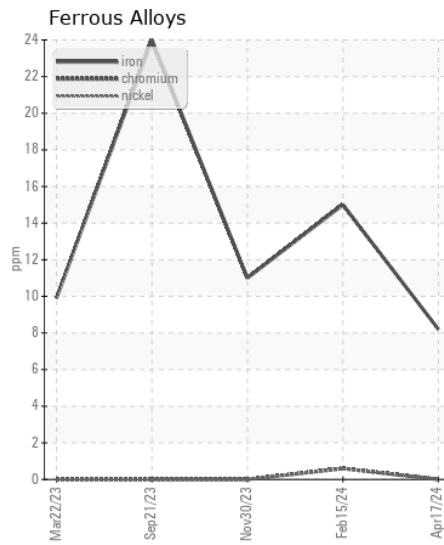
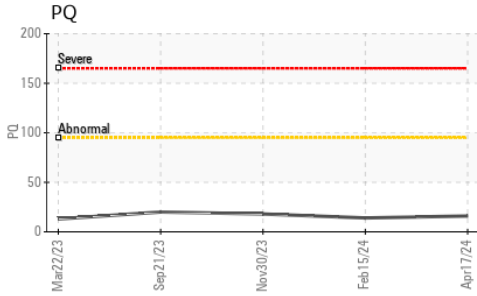
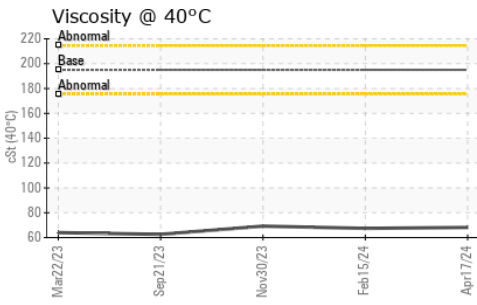
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	4	4	4
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	0	2
Boron	ppm	ASTM D5185m		25	31	30
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		14	10	12
Calcium	ppm	ASTM D5185m	2980	3064	2946	3056
Phosphorus	ppm	ASTM D5185m	1100	1045	964	1073
Zinc	ppm	ASTM D5185m	1270	1214	1211	1301
Sulfur	ppm	ASTM D5185m		5416	5467	4986
Visc @ 40°C	cSt	ASTM D445	195	68.2	67.4	69.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211355 **Received** : 18 Apr 2024
Lab Number : 06153350 **Tested** : 22 Apr 2024
Unique Number : 10983428 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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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