



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area

**[05W46075]**

Machine Id

**CATERPILLAR 950GC C276161 (S/N CAT00950JM5T05442)**

Component

**Rear Differential**

Fluid

**CAT TDTO SAE 50 (40 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0211358</b>	JR0203119	JR0195889
Sample Date		Client Info		<b>17 Apr 2024</b>	15 Feb 2024	30 Nov 2023
Machine Age	hrs	Client Info		<b>3482</b>	3016	2492
Oil Age	hrs	Client Info		<b>1500</b>	2508	508
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>71</b>	67	16
Iron	ppm	ASTM D5185m	>500	<b>83</b>	61	41
Chromium	ppm	ASTM D5185m	>3	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>13	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>103	<b>12</b>	11	8
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

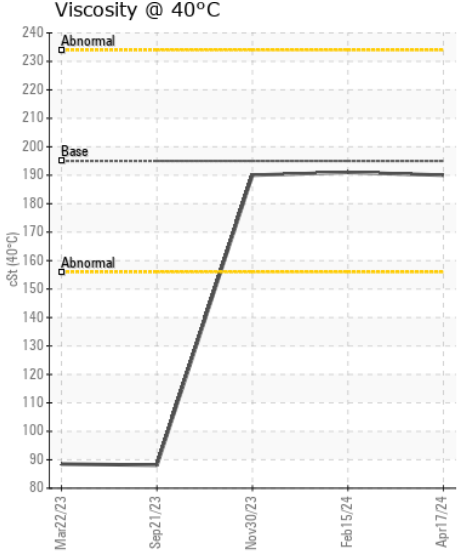
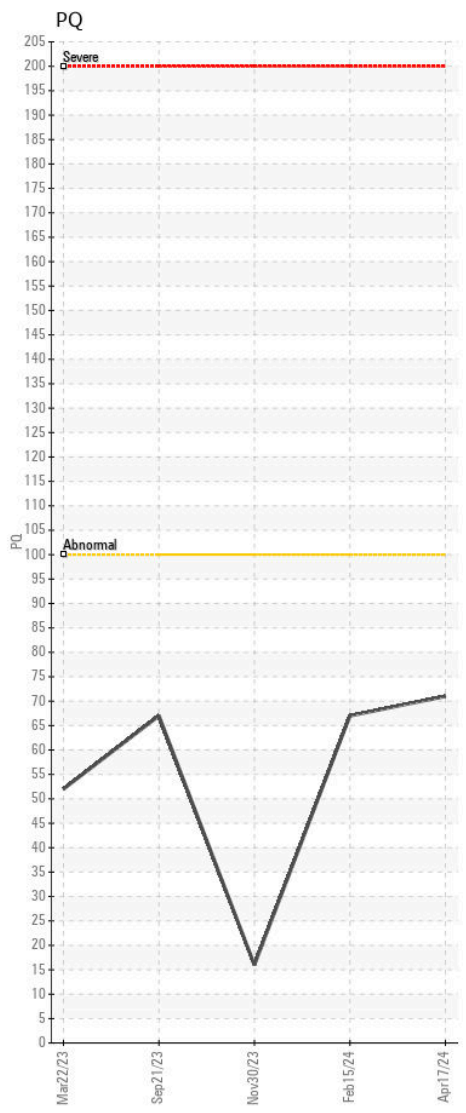
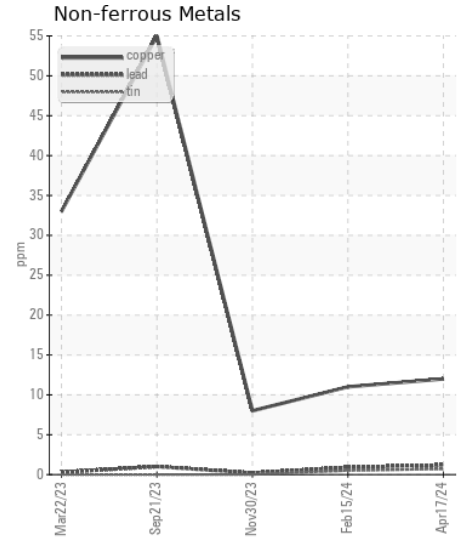
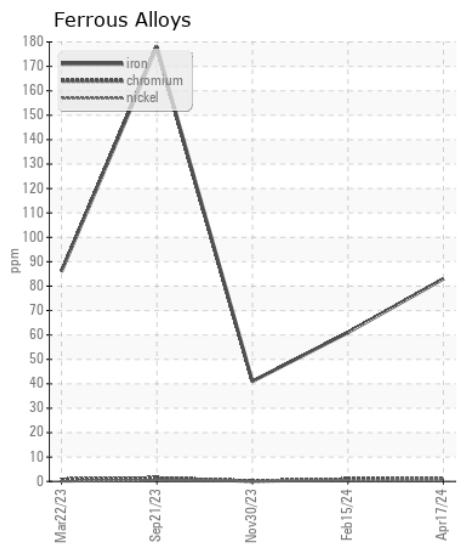
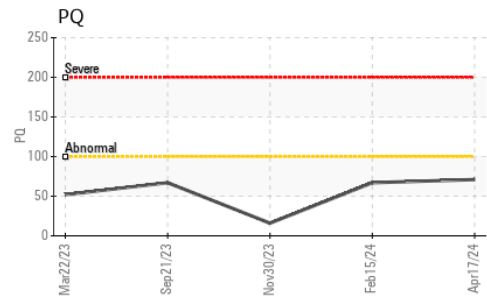
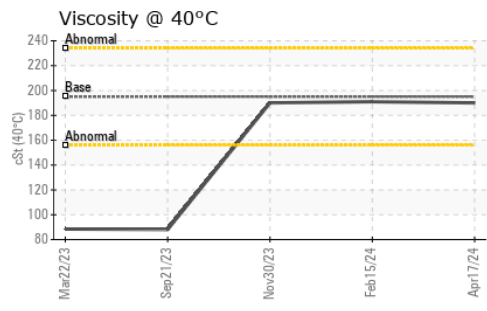
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	<b>13</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	0	1
Boron	ppm	ASTM D5185m		<b>7</b>	0	0
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>7</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>31</b>	8	10
Calcium	ppm	ASTM D5185m	2980	<b>2996</b>	2884	3092
Phosphorus	ppm	ASTM D5185m	1100	<b>1069</b>	944	1089
Zinc	ppm	ASTM D5185m	1270	<b>1224</b>	1187	1299
Sulfur	ppm	ASTM D5185m		<b>7679</b>	8057	7232
Visc @ 40°C	cSt	ASTM D445	195	<b>190</b>	191	190



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0211358 **Received** : 18 Apr 2024  
**Lab Number** : 06153370 **Tested** : 19 Apr 2024  
**Unique Number** : 10983448 **Diagnosed** : 19 Apr 2024 - Wes Davis  
**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)