



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



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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225597</b>	JR0211355	JR0203113
Sample Date		Client Info		<b>21 Jun 2024</b>	17 Apr 2024	15 Feb 2024
Machine Age	hrs	Client Info		<b>3952</b>	3482	3016
Oil Age	hrs	Client Info		<b>3486</b>	466	2508
Filter Age	hrs	Client Info		<b>0</b>	466	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>20</b>	16	14
Iron	ppm	ASTM D5185m	>200	<b>11</b>	8	15
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	1	1
Lead	ppm	ASTM D5185m	>45	<b>6</b>	5	12
Copper	ppm	ASTM D5185m	>225	<b>53</b>	35	106
Tin	ppm	ASTM D5185m	>10	<b>1</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

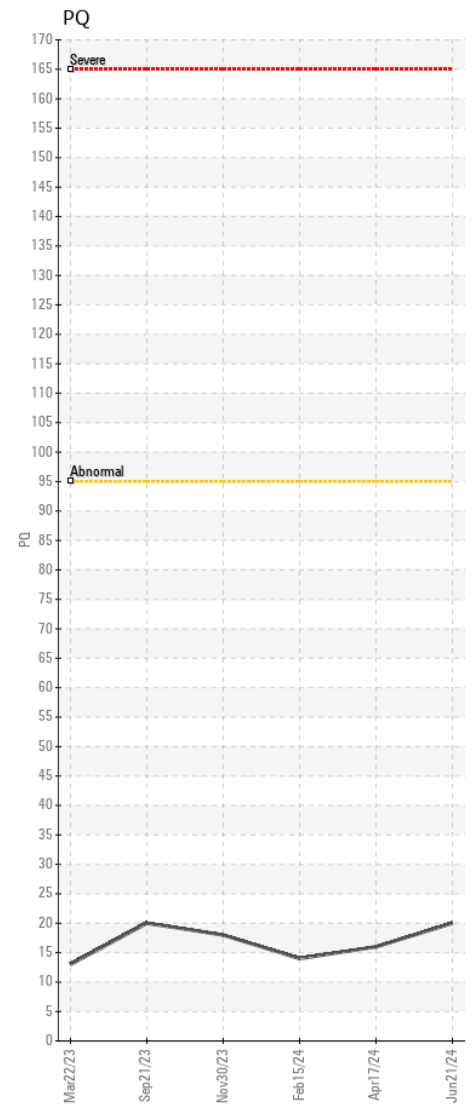
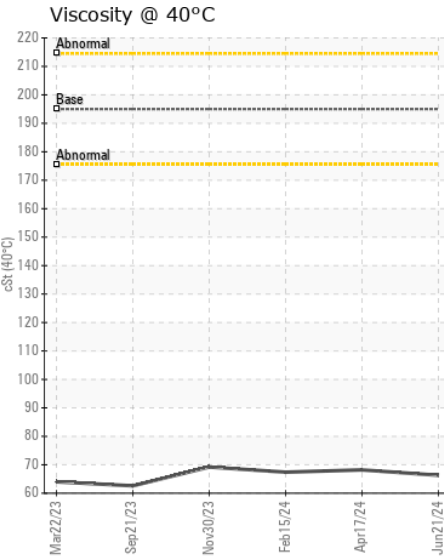
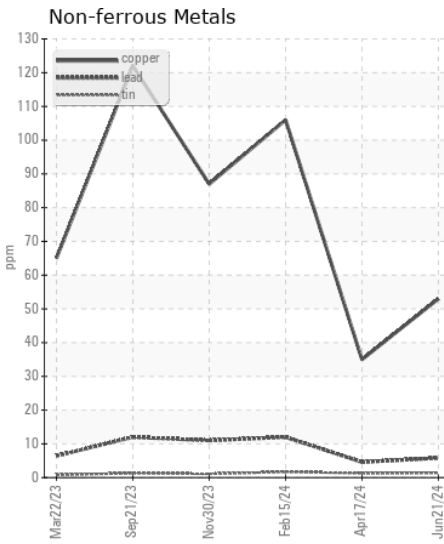
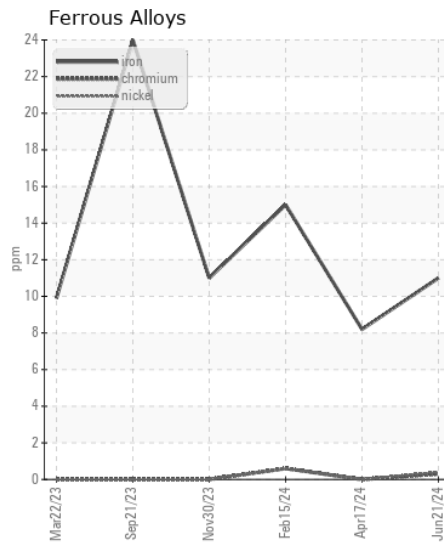
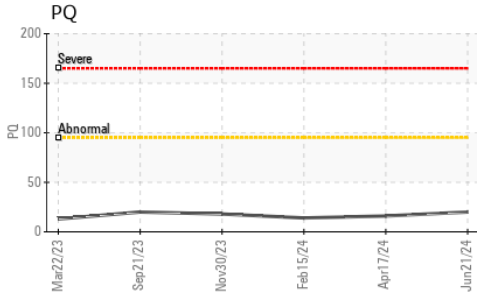
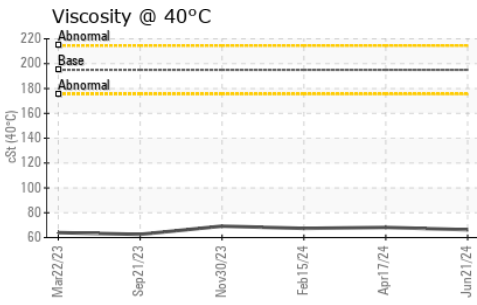
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	2	0
Boron	ppm	ASTM D5185m		<b>26</b>	25	31
Barium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>14</b>	14	10
Calcium	ppm	ASTM D5185m	2980	<b>3143</b>	3064	2946
Phosphorus	ppm	ASTM D5185m	1100	<b>1048</b>	1045	964
Zinc	ppm	ASTM D5185m	1270	<b>1246</b>	1214	1211
Sulfur	ppm	ASTM D5185m		<b>4674</b>	5416	5467
Visc @ 40°C	cSt	ASTM D445	195	<b>66.3</b>	68.2	67.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225597 **Received** : 24 Jun 2024  
**Lab Number** : 06218449 **Tested** : 25 Jun 2024  
**Unique Number** : 11096646 **Diagnosed** : 25 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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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