



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



Area  
**[05W47105]**  
 Machine Id  
**CATERPILLAR 938M YLDR1724 (S/N J3R02317)**  
 Component  
**Front 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>JR0217772</b>	JR0203137	JR0189980
Sample Date		Client Info		<b>24 May 2024</b>	16 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		<b>10802</b>	10370	9888
Oil Age	hrs	Client Info		<b>1500</b>	1000	404
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>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>173</b>	231	55
Iron	ppm	ASTM D5185m	>500	<b>84</b>	92	25
Chromium	ppm	ASTM D5185m	>3	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>1</b>	<1	2
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>103	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

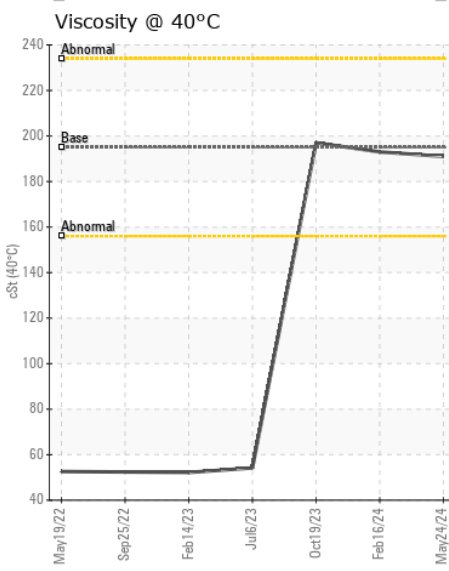
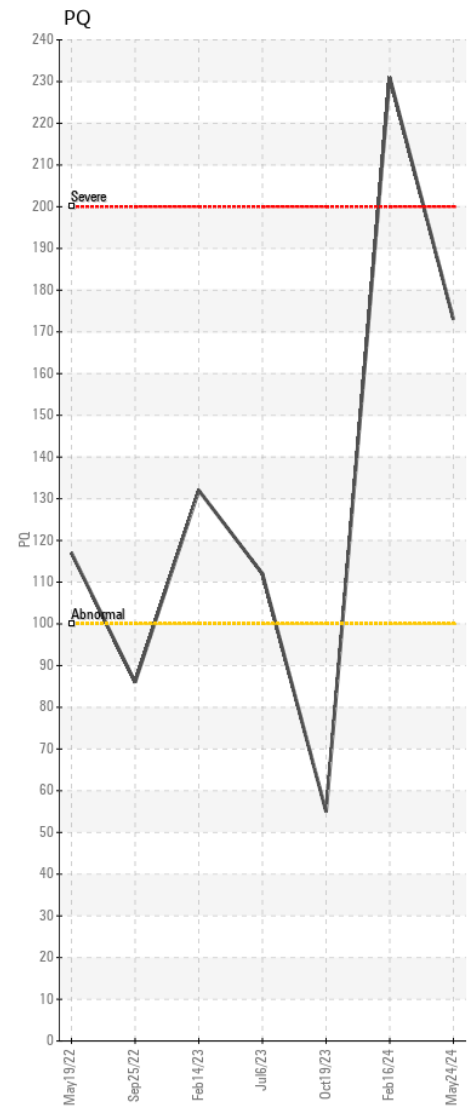
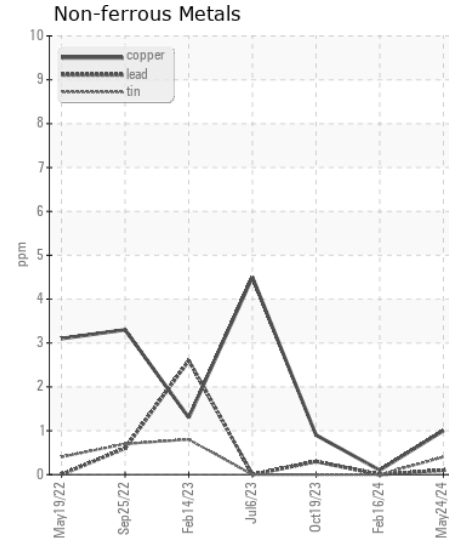
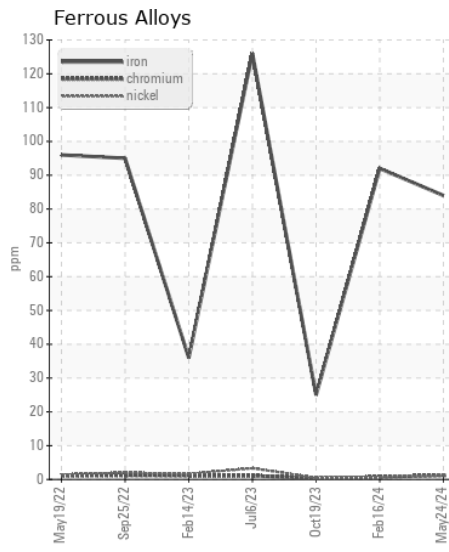
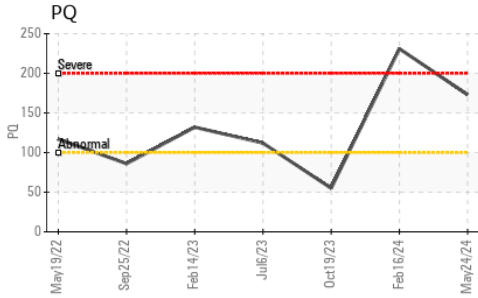
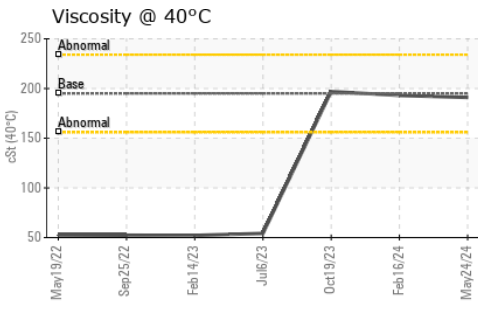
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>100	<b>10</b>	10	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Boron	ppm	ASTM D5185m		<b>20</b>	12	10
Barium	ppm	ASTM D5185m		<b>2</b>	0	10
Molybdenum	ppm	ASTM D5185m		<b>9</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>30</b>	15	8
Calcium	ppm	ASTM D5185m	2980	<b>3148</b>	3058	3103
Phosphorus	ppm	ASTM D5185m	1100	<b>1148</b>	1053	1123
Zinc	ppm	ASTM D5185m	1270	<b>1284</b>	1267	1271
Sulfur	ppm	ASTM D5185m		<b>8324</b>	7762	10072
Visc @ 40°C	cSt	ASTM D445	195	<b>191</b>	193	197



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217772 **Received** : 29 May 2024  
**Lab Number** : 06194724 **Tested** : 31 May 2024  
**Unique Number** : 11056847 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**TITAN VIRGINIA READY MIX LLC**  
 5700 LAKEWRIGHT DR, SUITE 300  
 NORFOLK, VA  
 US 23502  
 Contact: ROBERT TAUBER  
 rtauber@titanamerica.com  
 T: (571)436-2579  
 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)