



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



Area  
**[05W47105]**  
 Machine Id  
**CATERPILLAR 938M YLDR1724 (S/N J3R02317)**  
 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>JR0217773</b>	JR0203136	JR0189979
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		ASTM D8184		<b>46</b>	66	17
Iron	ppm	ASTM D5185m	>500	<b>39</b>	34	12
Chromium	ppm	ASTM D5185m	>3	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>2</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>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	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.

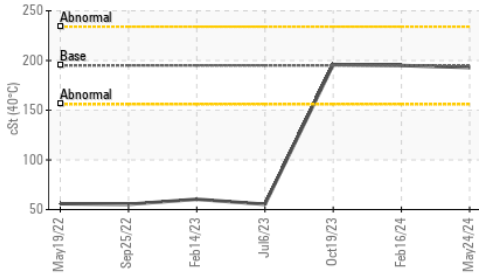
Silicon	ppm	ASTM D5185m	>100	<b>10</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<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

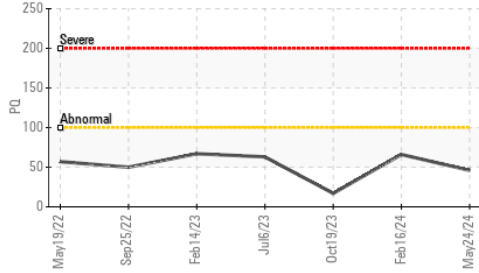
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Boron	ppm	ASTM D5185m		<b>11</b>	9	8
Barium	ppm	ASTM D5185m		<b>2</b>	0	10
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>8</b>	0	14
Calcium	ppm	ASTM D5185m	2980	<b>3080</b>	3067	3078
Phosphorus	ppm	ASTM D5185m	1100	<b>1128</b>	1038	1107
Zinc	ppm	ASTM D5185m	1270	<b>1270</b>	1237	1275
Sulfur	ppm	ASTM D5185m		<b>8940</b>	7387	9676
Visc @ 40°C	cSt	ASTM D445	195	<b>193</b>	195	196

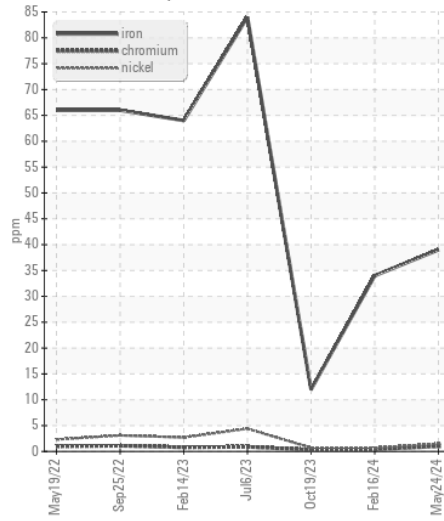
Viscosity @ 40°C



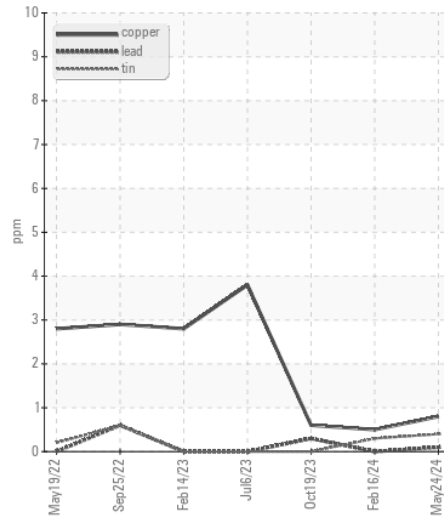
PQ



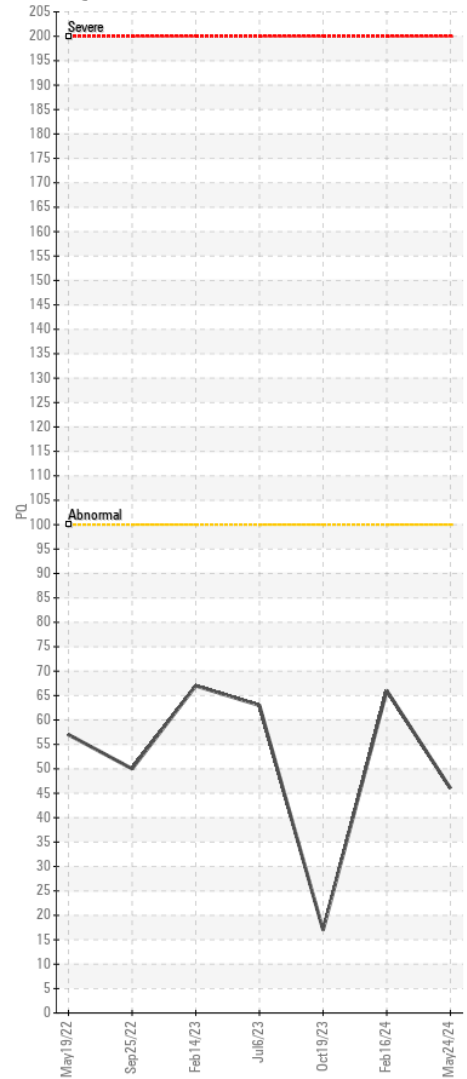
Ferrous Alloys



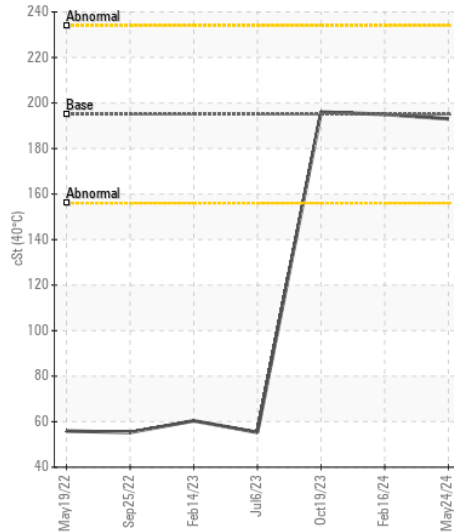
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : JR0217773 Received : 29 May 2024  
 Lab Number : 06194717 Tested : 31 May 2024  
 Unique Number : 11056840 Diagnosed : 31 May 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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