



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[05W46075]
 Machine Id
CATERPILLAR 950GC C276161 (S/N CAT00950JM5T05442)
 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		JR0211357	JR0203114	JR0195888
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		1500	2508	508
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		54	49	26
Iron	ppm	ASTM D5185m	>500	73	45	26
Chromium	ppm	ASTM D5185m	>3	1	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	2	1	1
Lead	ppm	ASTM D5185m	>13	1	<1	0
Copper	ppm	ASTM D5185m	>103	13	11	8
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

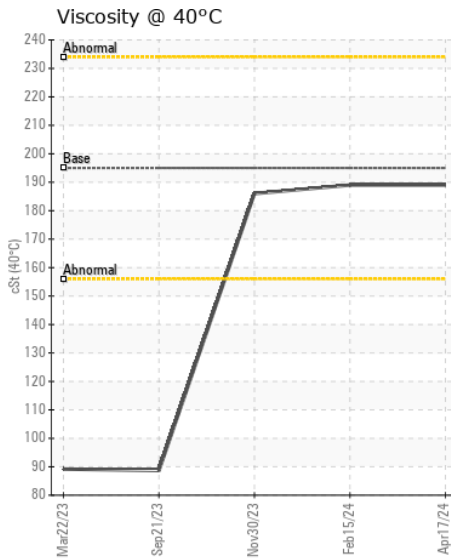
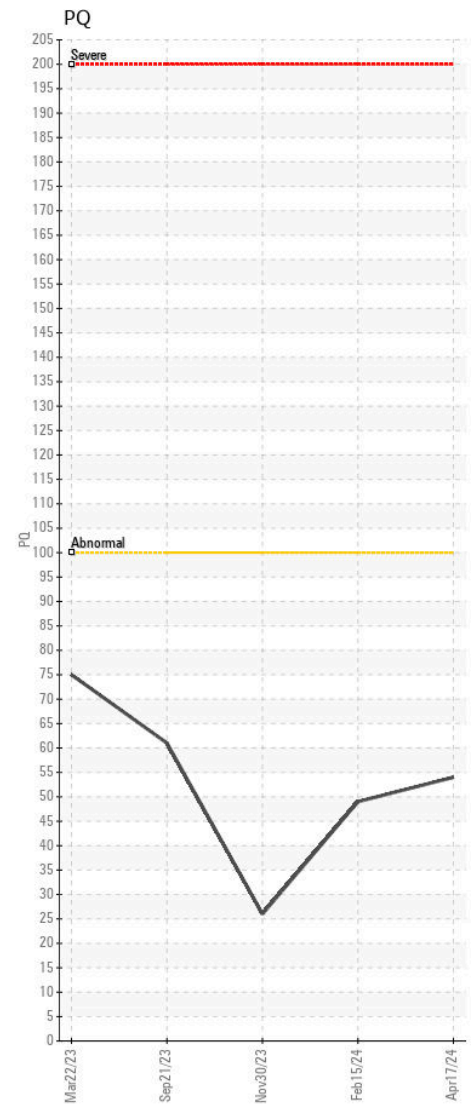
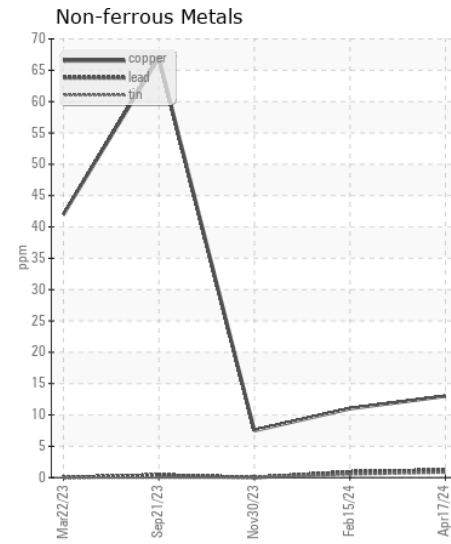
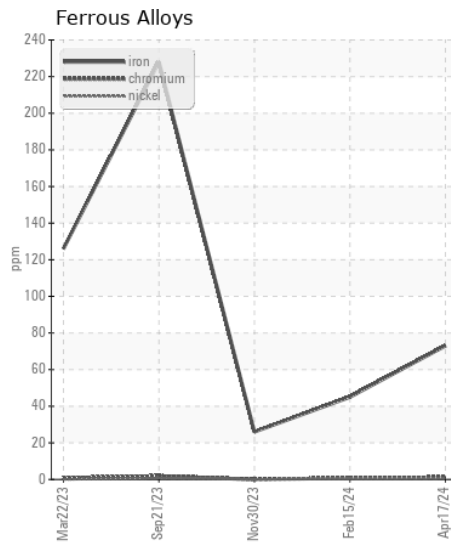
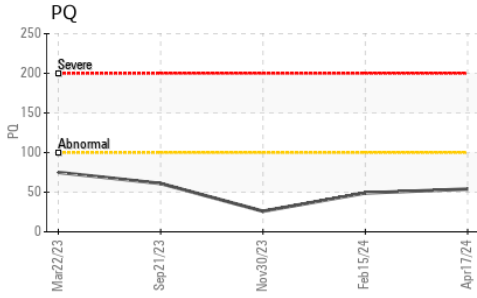
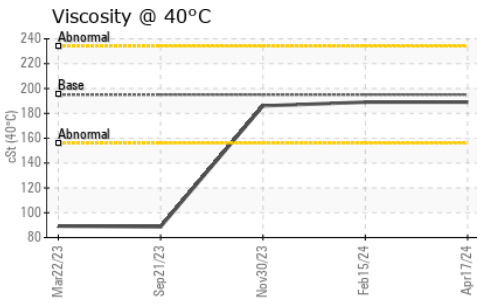
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	15	7	6
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>.2	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	0	1
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		2	1	<1
Magnesium	ppm	ASTM D5185m		8	7	8
Calcium	ppm	ASTM D5185m	2980	3031	2866	3069
Phosphorus	ppm	ASTM D5185m	1100	1085	939	1092
Zinc	ppm	ASTM D5185m	1270	1236	1188	1297
Sulfur	ppm	ASTM D5185m		8447	8500	7330
Visc @ 40°C	cSt	ASTM D445	195	189	189	186



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211357 **Received** : 18 Apr 2024
Lab Number : 06153366 **Tested** : 19 Apr 2024
Unique Number : 10983444 **Diagnosed** : 19 Apr 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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