



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[05W47700]
 Machine Id
CATERPILLAR 950GC C285096 (S/N 0M5T05487)
 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		JR0225332	JR0210925	JR0203184
Sample Date		Client Info		25 Jun 2024	11 Apr 2024	12 Feb 2024
Machine Age	hrs	Client Info		2989	2465	2018
Oil Age	hrs	Client Info		1000	447	2018
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		35	45	114
Iron	ppm	ASTM D5185m	>500	44	41	249
Chromium	ppm	ASTM D5185m	>3	0	<1	1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	<1	6
Lead	ppm	ASTM D5185m	>13	0	0	1
Copper	ppm	ASTM D5185m	>103	16	13	▲ 107
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

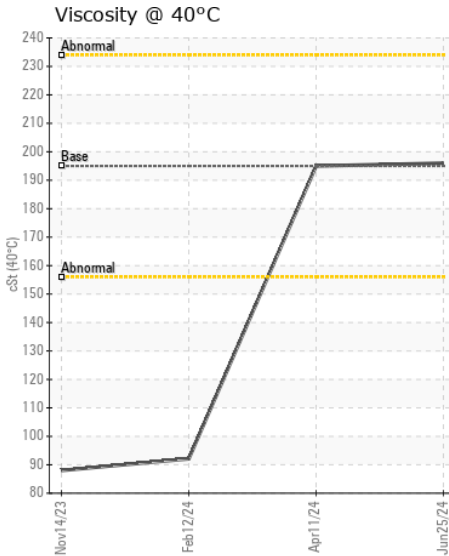
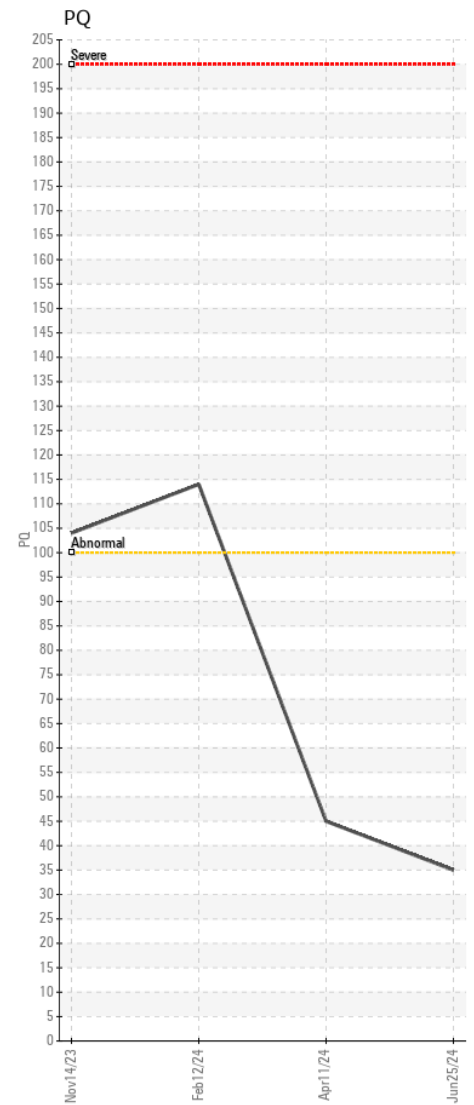
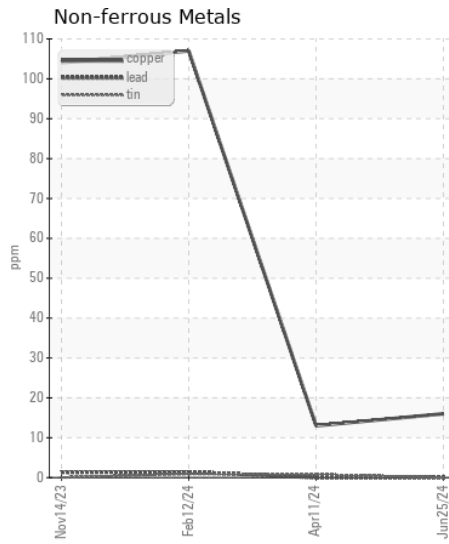
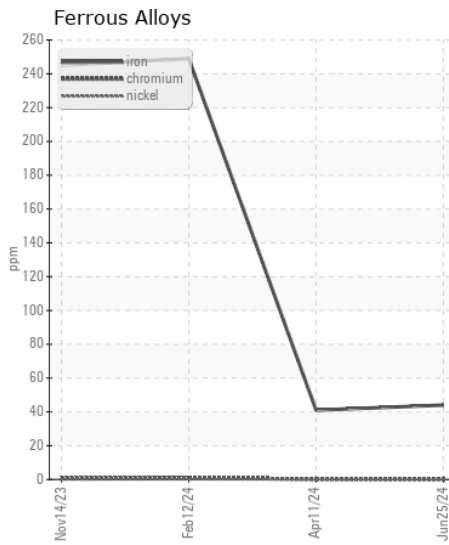
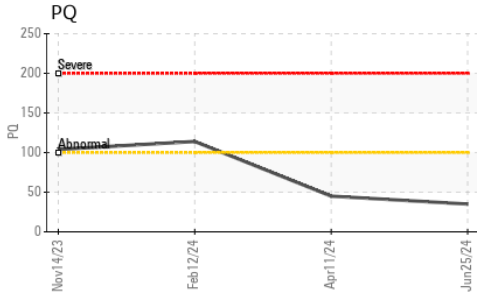
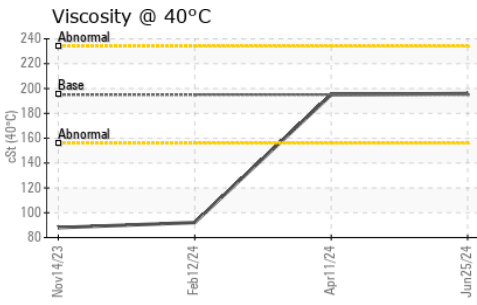
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	8	8	8
Potassium	ppm	ASTM D5185m	>20	0	0	<1
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		<1	2	4
Boron	ppm	ASTM D5185m		4	3	3
Barium	ppm	ASTM D5185m		0	0	4
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	7
Magnesium	ppm	ASTM D5185m		9	6	17
Calcium	ppm	ASTM D5185m	2980	3052	2833	2905
Phosphorus	ppm	ASTM D5185m	1100	1073	930	1064
Zinc	ppm	ASTM D5185m	1270	1243	1060	1291
Sulfur	ppm	ASTM D5185m		9018	7667	4393
Visc @ 40°C	cSt	ASTM D445	195	196	195	92.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225332 **Received** : 26 Jun 2024
Lab Number : 06221556 **Tested** : 27 Jun 2024
Unique Number : 11099753 **Diagnosed** : 27 Jun 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)