



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[05W46012]

Machine Id

CATERPILLAR 950GC C285096 (S/N 0M5T05487)

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		JR0211024	JR0203115	JR0192204
Sample Date		Client Info		11 Apr 2024	12 Feb 2024	14 Nov 2023
Machine Age	hrs	Client Info		2465	2018	1485
Oil Age	hrs	Client Info		447	2018	1485
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		33	91	74
Iron	ppm	ASTM D5185m	>500	22	127	124
Chromium	ppm	ASTM D5185m	>3	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	1	8	8
Lead	ppm	ASTM D5185m	>13	0	<1	2
Copper	ppm	ASTM D5185m	>103	17	▲ 121	▲ 115
Tin	ppm	ASTM D5185m	>5	<1	<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

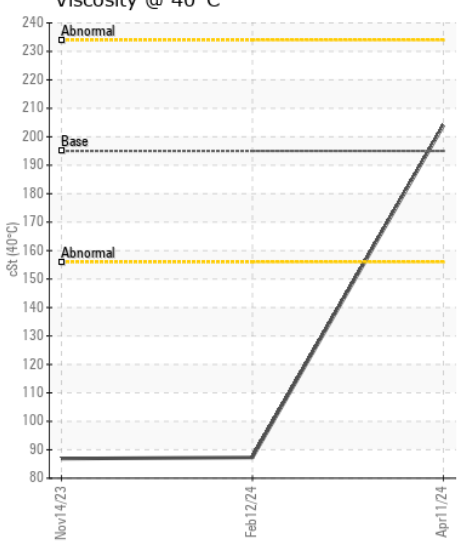
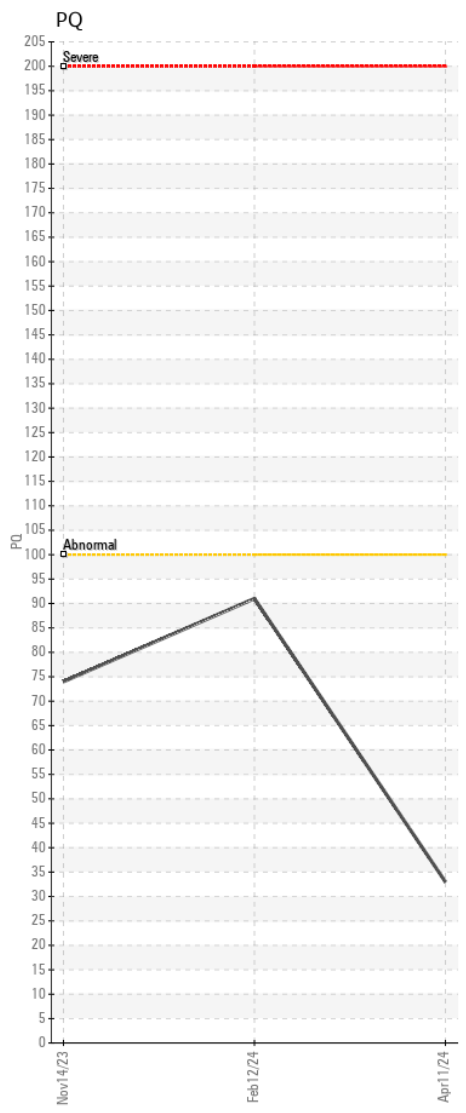
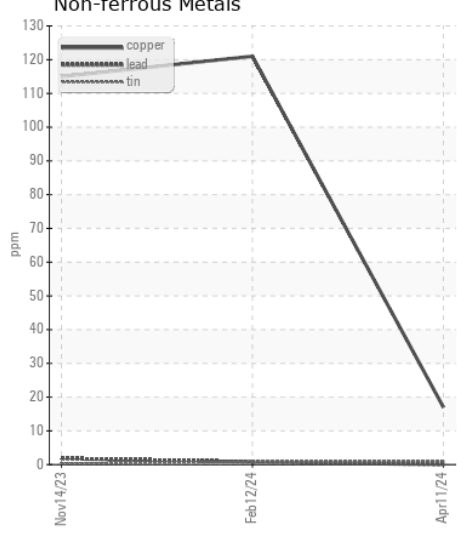
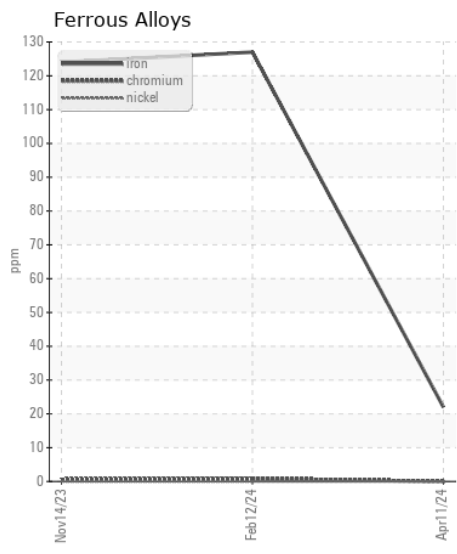
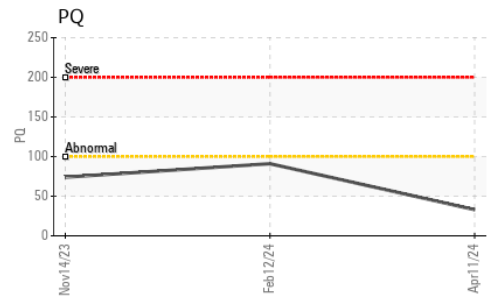
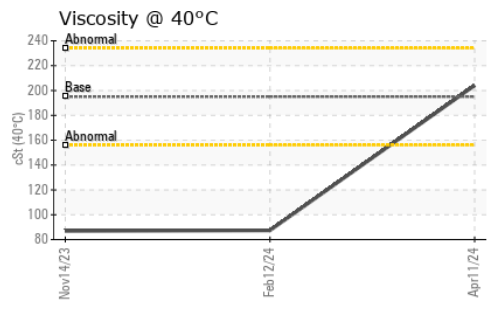
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	6	7	8
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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		2	4	4
Boron	ppm	ASTM D5185m		1	4	2
Barium	ppm	ASTM D5185m		0	2	3
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	6	6
Magnesium	ppm	ASTM D5185m		11	11	8
Calcium	ppm	ASTM D5185m	2980	2951	2934	2977
Phosphorus	ppm	ASTM D5185m	1100	973	1064	1073
Zinc	ppm	ASTM D5185m	1270	1172	1329	1350
Sulfur	ppm	ASTM D5185m		8208	4663	4627
Visc @ 40°C	cSt	ASTM D445	195	204	87.3	86.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211024 **Received** : 15 Apr 2024
Lab Number : 06149652 **Tested** : 16 Apr 2024
Unique Number : 10979730 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)