



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 950GC C276161 (S/N CAT00950JM5T05442)
 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		JR0225599	JR0211358	JR0203119
Sample Date		Client Info		21 Jun 2024	17 Apr 2024	15 Feb 2024
Machine Age	hrs	Client Info		3952	3482	3016
Oil Age	hrs	Client Info		2454	1500	2508
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		None	N/A	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		123	71	67
Iron	ppm	ASTM D5185m	>500	144	83	61
Chromium	ppm	ASTM D5185m	>3	2	1	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	3	2	1
Lead	ppm	ASTM D5185m	>13	<1	1	<1
Copper	ppm	ASTM D5185m	>103	15	12	11
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

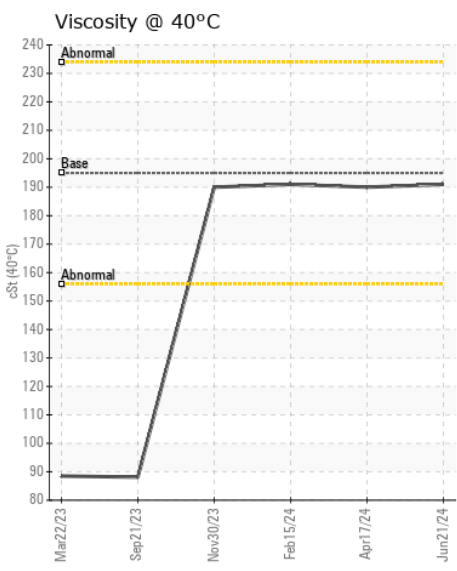
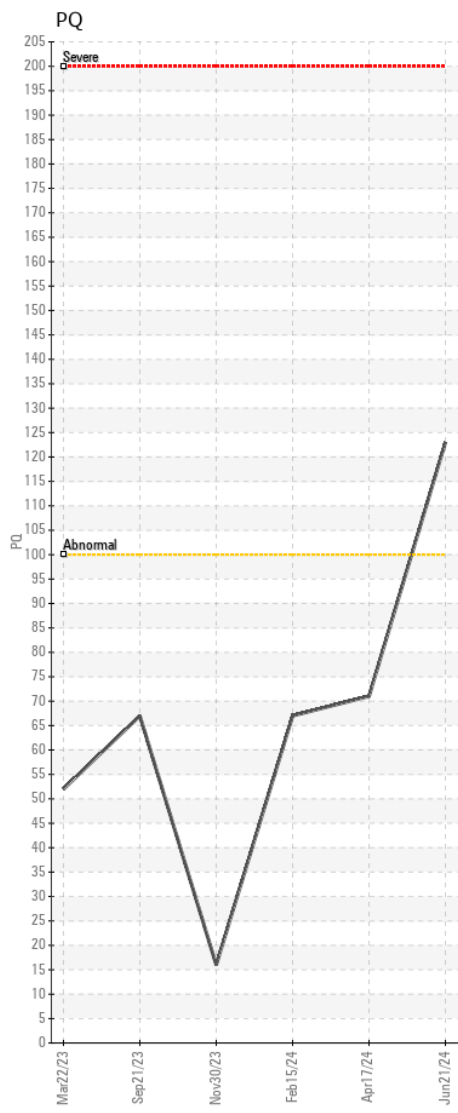
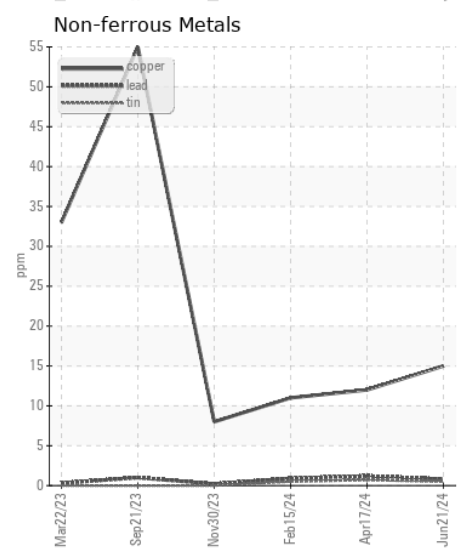
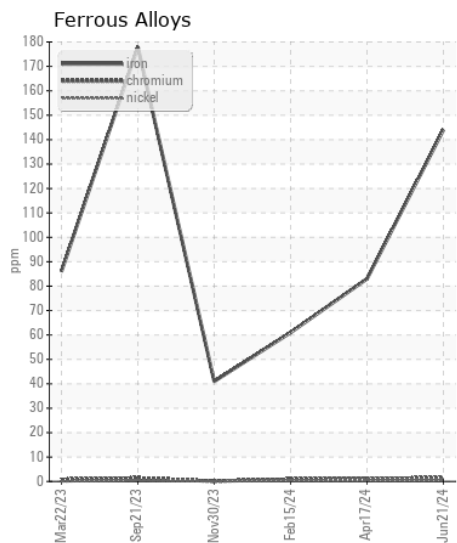
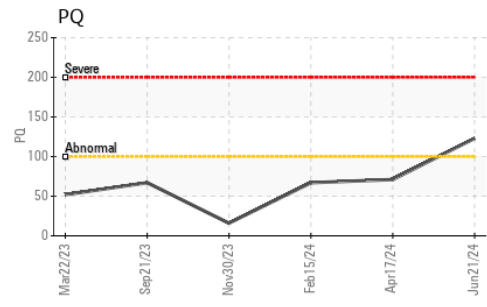
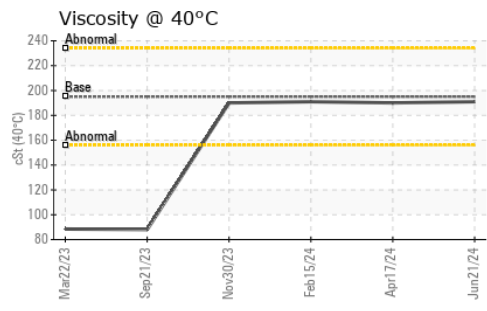
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	16	13	10
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	0
Boron	ppm	ASTM D5185m		3	7	0
Barium	ppm	ASTM D5185m		2	2	0
Molybdenum	ppm	ASTM D5185m		<1	7	<1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		10	31	8
Calcium	ppm	ASTM D5185m	2980	3042	2996	2884
Phosphorus	ppm	ASTM D5185m	1100	1030	1069	944
Zinc	ppm	ASTM D5185m	1270	1208	1224	1187
Sulfur	ppm	ASTM D5185m		7120	7679	8057
Visc @ 40°C	cSt	ASTM D445	195	191	190	191



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225599 **Received** : 24 Jun 2024
Lab Number : 06218577 **Tested** : 25 Jun 2024
Unique Number : 11096774 **Diagnosed** : 25 Jun 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)