



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[W66345]

Machine Id

CATERPILLAR 938M CAT0938MJJ3R04964

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W66345)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206710	JR0192996	JR0161612
Sample Date		Client Info		23 Apr 2024	13 Dec 2023	19 May 2023
Machine Age	hrs	Client Info		11048	10324	9508
Oil Age	hrs	Client Info		8105	8197	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		50	18	13
Iron	ppm	ASTM D5185m	>500	86	22	12
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	<1	<1
Lead	ppm	ASTM D5185m	>13	0	7	2
Copper	ppm	ASTM D5185m	>103	0	8	0
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

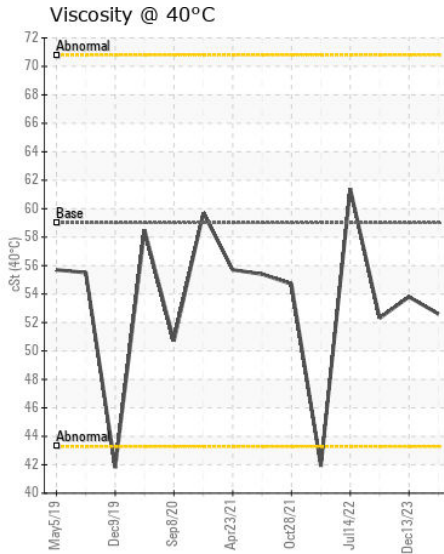
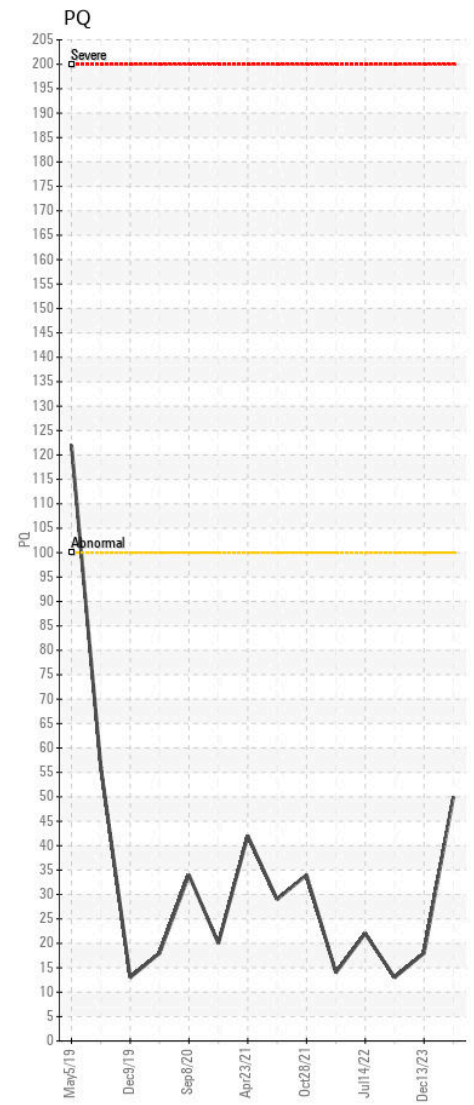
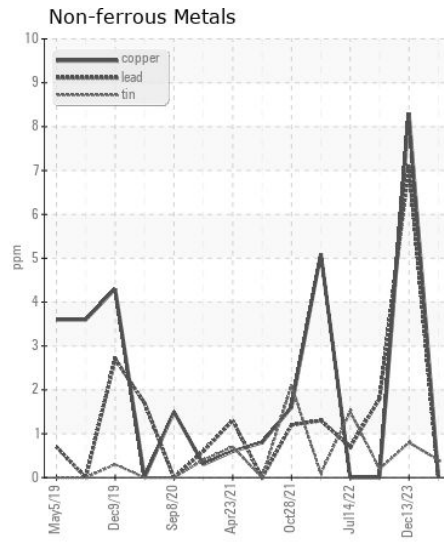
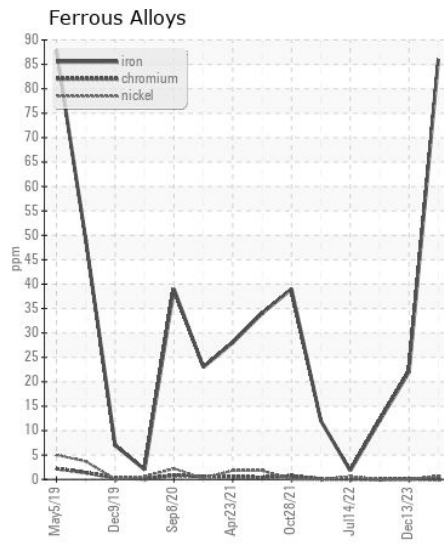
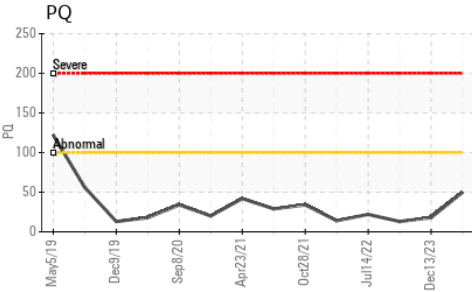
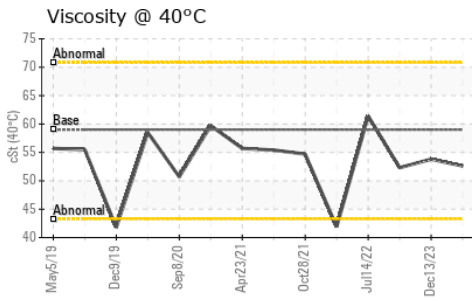
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	6	4	3
Potassium	ppm	ASTM D5185m	>20	0	<1	<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	<1
Boron	ppm	ASTM D5185m		1	0	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		97	100	103
Calcium	ppm	ASTM D5185m		3334	3513	3455
Phosphorus	ppm	ASTM D5185m		1048	1077	1003
Zinc	ppm	ASTM D5185m		1227	1266	1294
Sulfur	ppm	ASTM D5185m		3783	3676	4133
Visc @ 40°C	cSt	ASTM D445	59	52.6	53.8	52.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206710 **Received** : 25 Apr 2024
Lab Number : 06160670 **Tested** : 26 Apr 2024
Unique Number : 10996093 **Diagnosed** : 27 Apr 2024 - Don Baldrige
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)