



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 550J 37467 (S/N T0550JX117230)
 Component
Hydraulic System
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207840	JR0191392	JR0185200
Sample Date		Client Info		24 May 2024	13 Dec 2023	21 Aug 2023
Machine Age	hrs	Client Info		13080	12876	12475
Oil Age	hrs	Client Info		204	2200	1799
Filter Age	hrs	Client Info		204	2200	1799
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	18	19	13
Iron	ppm	ASTM D5185m	>23	5	12	11
Chromium	ppm	ASTM D5185m	>9	1	4	3
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	6	9	9
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>51	1	5	4
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

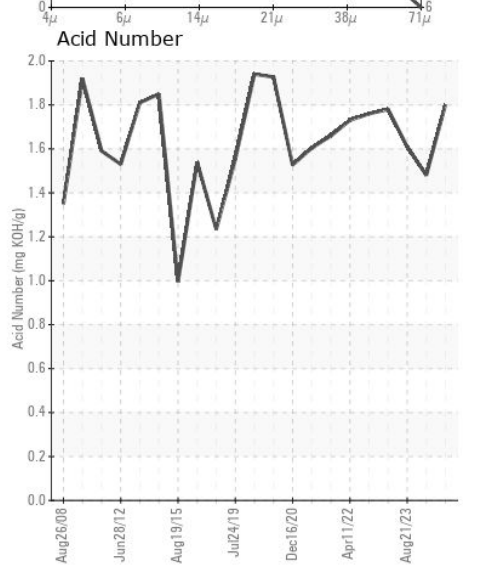
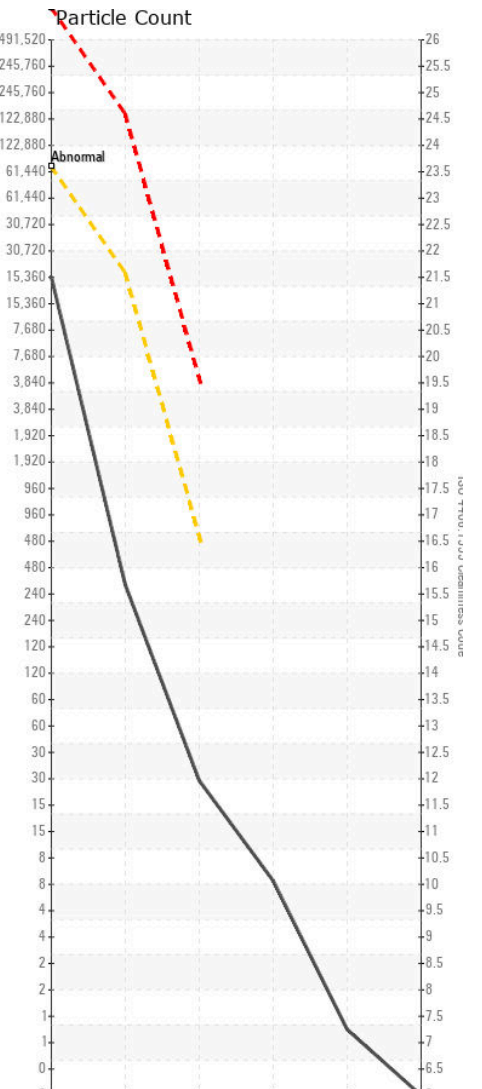
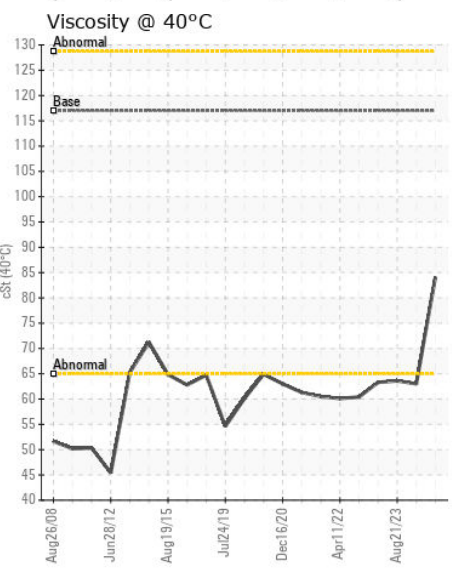
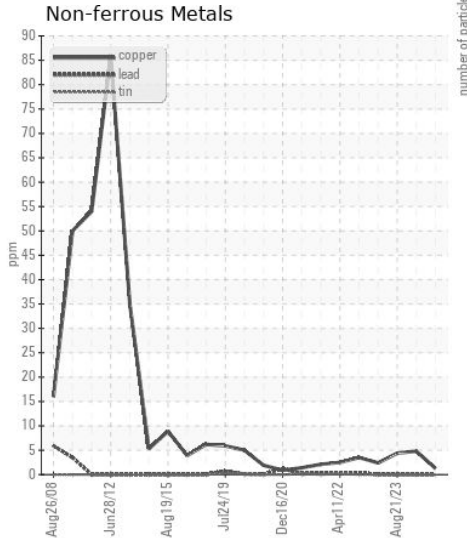
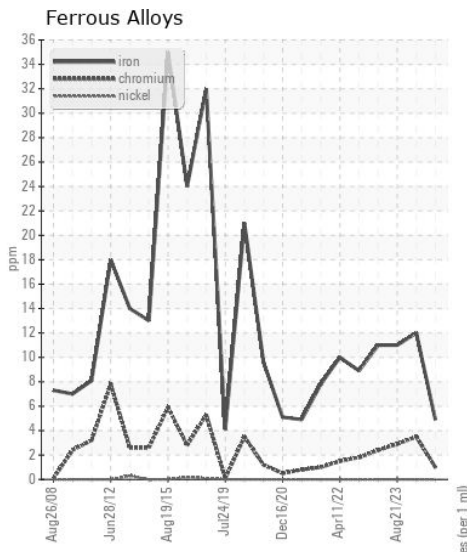
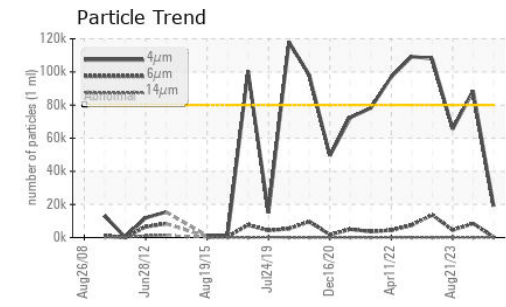
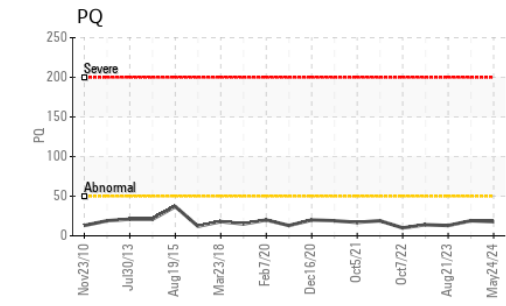
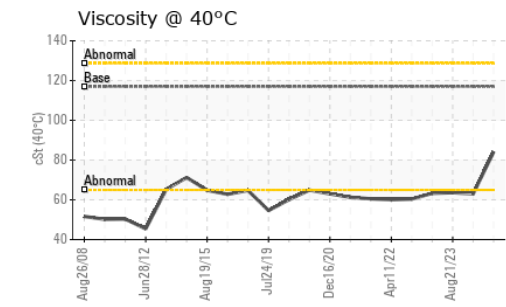
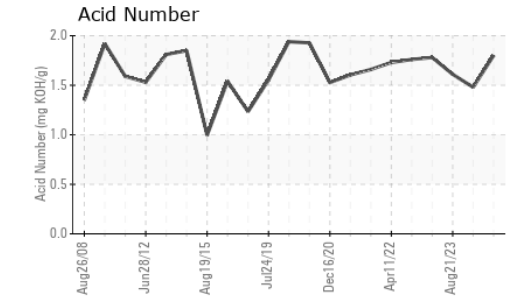
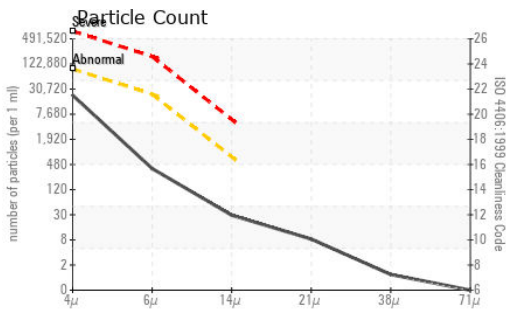
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	10	17	15
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	18974	88579	65481
Particles >6µm		ASTM D7647	>20000	337	8509	4428
Particles >14µm		ASTM D7647	>640	26	65	72
Particles >21µm		ASTM D7647	>160	7	12	21
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/16/12	24/20/13	23/19/13
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	1	2	<1
Boron	ppm	ASTM D5185m		262	96	107
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		176	66	73
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		635	418	434
Calcium	ppm	ASTM D5185m		1534	1694	1819
Phosphorus	ppm	ASTM D5185m		960	961	990
Zinc	ppm	ASTM D5185m		1067	1095	1130
Sulfur	ppm	ASTM D5185m		3524	3241	3735
Acid Number (AN)	mg KOH/g	ASTM D8045		1.80	1.48	1.61
Visc @ 40°C	cSt	ASTM D445	117	84.1	63.0	63.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207840 **Received** : 28 May 2024
Lab Number : 06192102 **Tested** : 29 May 2024
Unique Number : 11048854 **Diagnosed** : 29 May 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

TENNOCA CONSTRUCTION
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 US 28715
 Contact: MARK ROSS
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 T: (828)665-8331
 F:

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)