



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#150716]
 Machine Id
JOHN DEERE 450J 1T0450JXVCD228725
 Component
Hydraulic System
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample
 Comment: JOHN DEERE TORQ GARD 10W30)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048747	LECP174263	---
Sample Date		Client Info		07 May 2024	22 Dec 2016	---
Machine Age	hrs	Client Info		912	504	---
Oil Age	hrs	Client Info		912	504	---
Filter Age	hrs	Client Info		912	504	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	18	15	---
Iron	ppm	ASTM D5185m	>23	11	6	---
Chromium	ppm	ASTM D5185m	>9	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	6	3	---
Lead	ppm	ASTM D5185m	>28	1	0	---
Copper	ppm	ASTM D5185m	>51	11	4	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	VLITE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

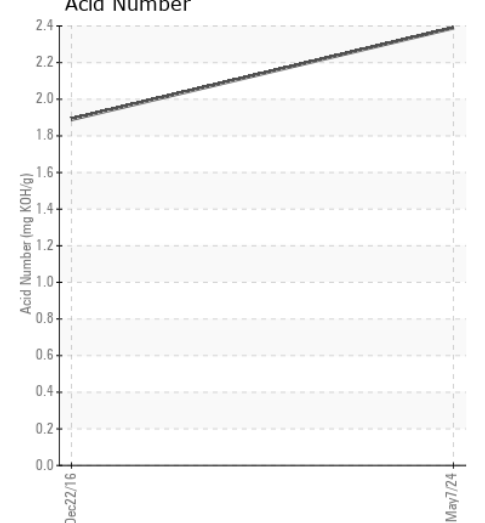
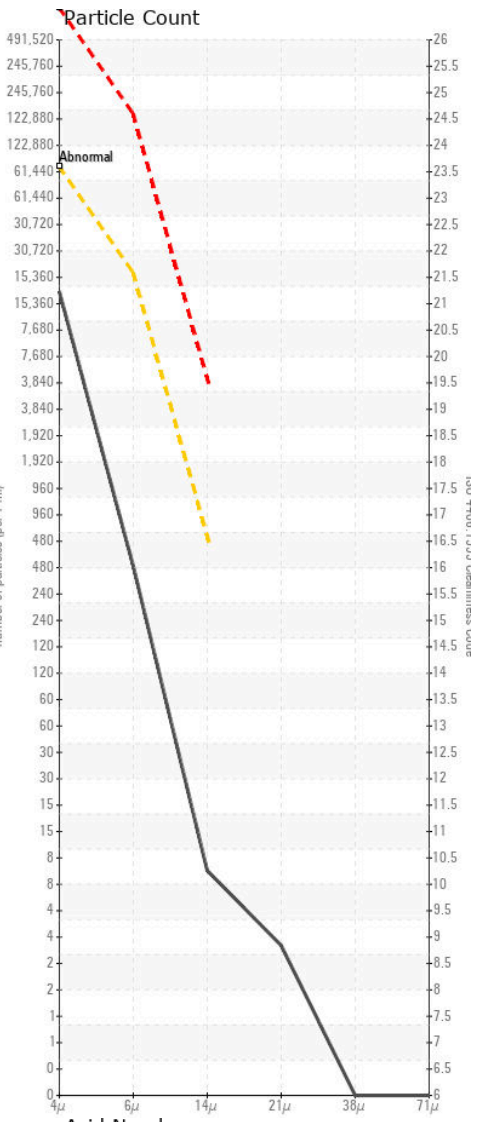
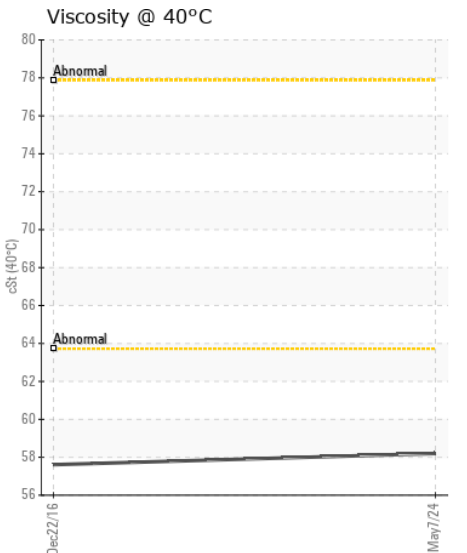
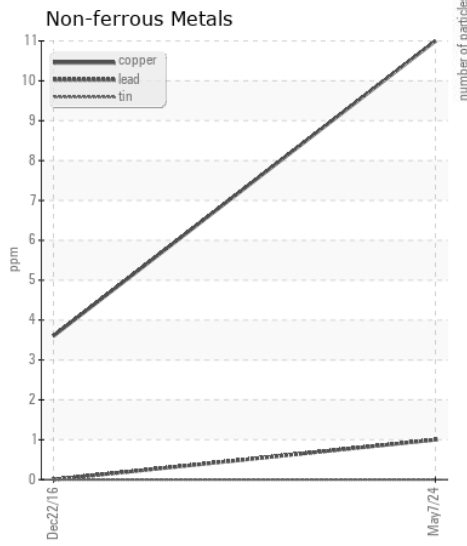
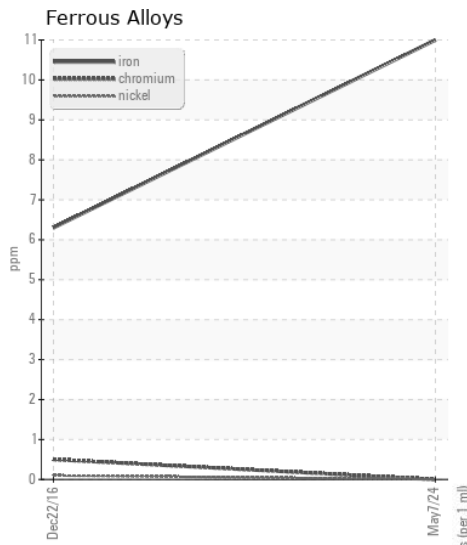
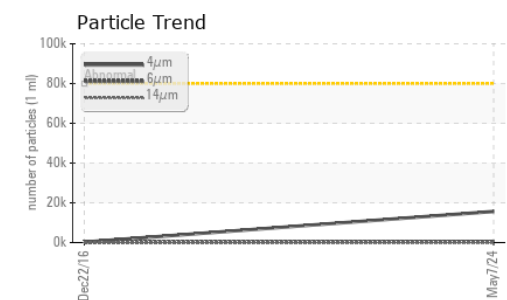
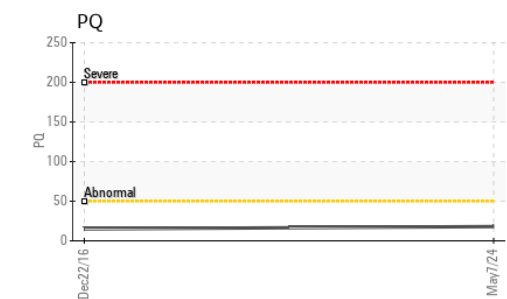
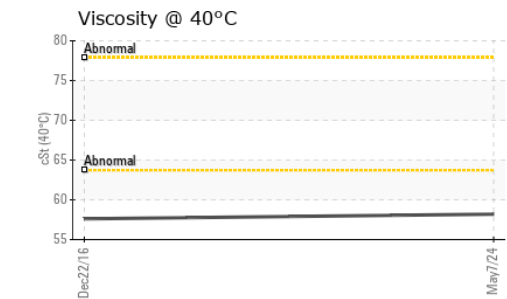
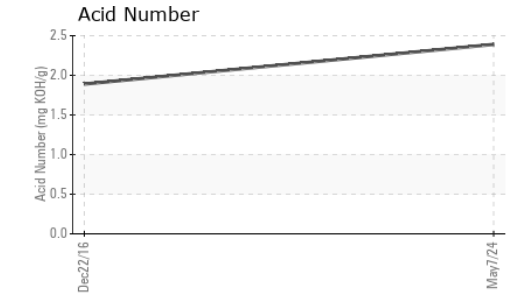
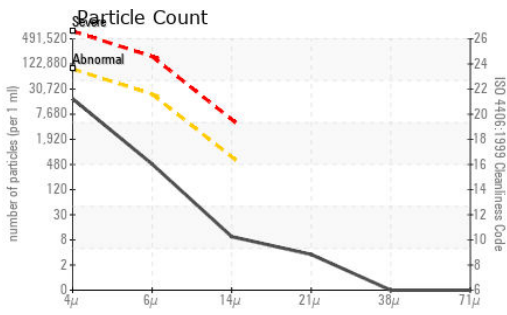
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	14	10	---
Potassium	ppm	ASTM D5185m	>20	4	6	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	15659	231	---
Particles >6µm		ASTM D7647	>20000	430	125	---
Particles >14µm		ASTM D7647	>640	8	21	---
Particles >21µm		ASTM D7647	>160	3	7	---
Particles >38µm		ASTM D7647	>40	0	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/16/10	15/14/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	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	3	4	---
Boron	ppm	ASTM D5185m		44	24	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		34	22	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		352	356	---
Calcium	ppm	ASTM D5185m		2333	2554	---
Phosphorus	ppm	ASTM D5185m		1110	1033	---
Zinc	ppm	ASTM D5185m		1285	1366	---
Sulfur	ppm	ASTM D5185m		4189	3684	---
Acid Number (AN)	mg KOH/g	ASTM D8045		2.39	1.89	---
Visc @ 40°C	cSt	ASTM D445		58.2	57.61	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0048747 Received : 10 May 2024
 Lab Number : 06176049 Tested : 14 May 2024
 Unique Number : 11022102 Diagnosed : 14 May 2024 - Don Baldrige
 Test Package : CONST (Additional Tests: PQ)

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)

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