



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**Store 2 - Beaver [ro#146830]**  
Machine Id  
**JOHN DEERE 1050K 1T01050PEJF332204**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (23 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0046909</b>	LEC0041463	---
Sample Date		Client Info		<b>12 Jan 2024</b>	14 Jun 2023	---
Machine Age	hrs	Client Info		<b>815</b>	210	---
Oil Age	hrs	Client Info		<b>815</b>	210	---
Filter Age	hrs	Client Info		<b>815</b>	210	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>9</b>	16	---
Iron	ppm	ASTM D5185m	>23	<b>&lt;1</b>	1	---
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>28	<b>2</b>	2	---
Copper	ppm	ASTM D5185m	>51	<b>10</b>	11	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

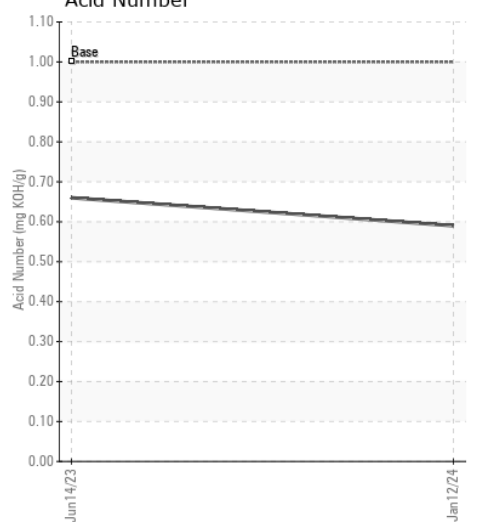
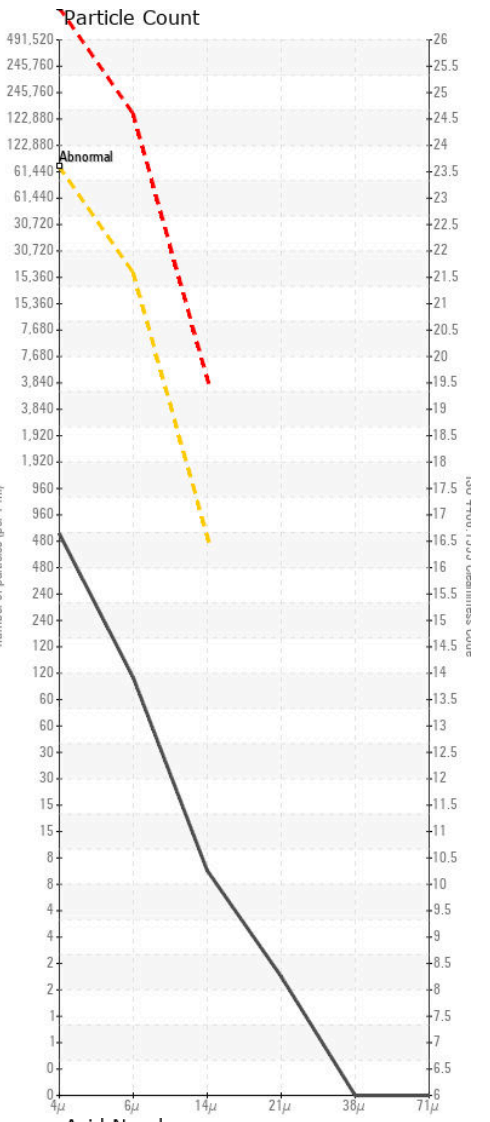
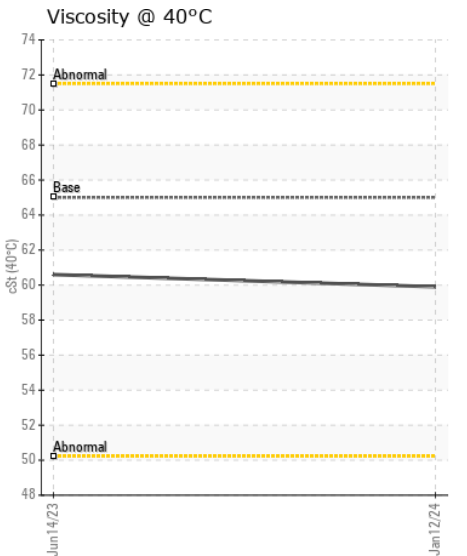
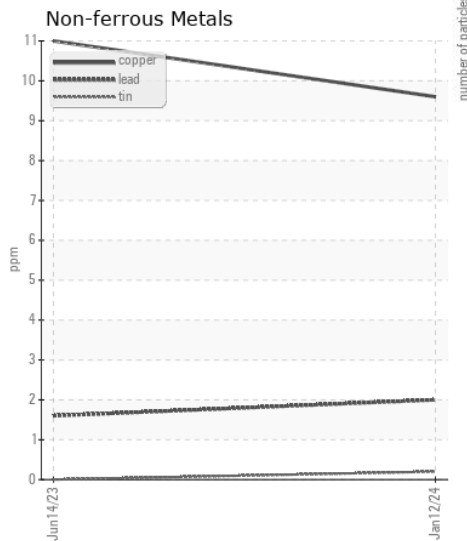
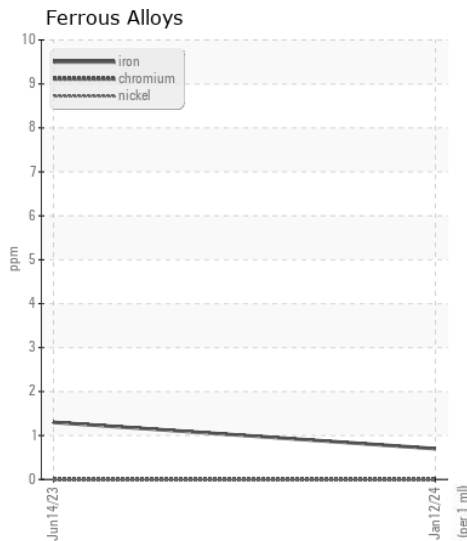
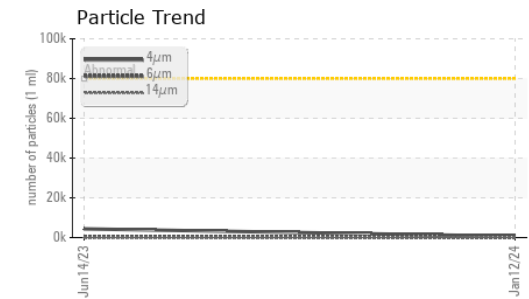
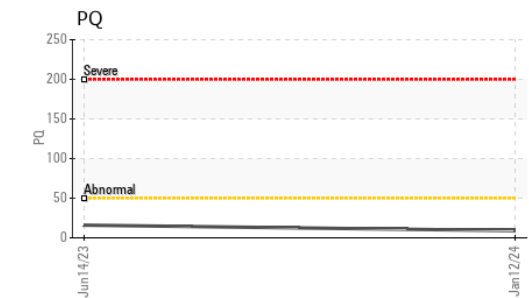
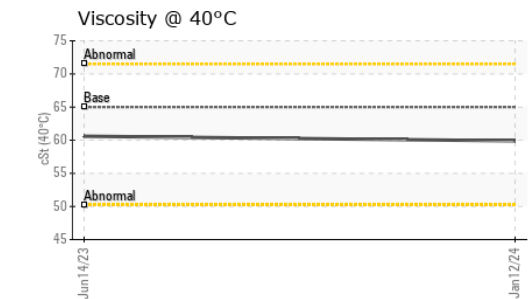
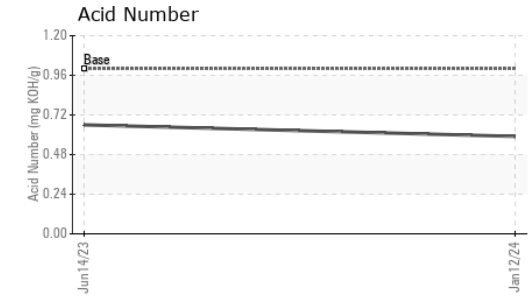
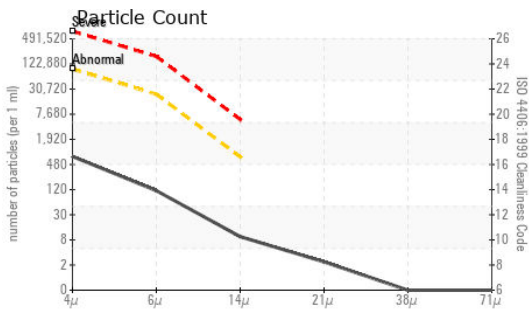
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>&lt;1</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>658</b>	4384	---
Particles >6µm		ASTM D7647	>20000	<b>100</b>	355	---
Particles >14µm		ASTM D7647	>640	<b>8</b>	24	---
Particles >21µm		ASTM D7647	>160	<b>2</b>	6	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>17/14/10</b>	19/16/12	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	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	<b>&lt;1</b>	0	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	---
Calcium	ppm	ASTM D5185m	87	<b>82</b>	86	---
Phosphorus	ppm	ASTM D5185m	727	<b>623</b>	585	---
Zinc	ppm	ASTM D5185m	900	<b>785</b>	803	---
Sulfur	ppm	ASTM D5185m	1500	<b>1562</b>	1728	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.59</b>	0.66	---
Visc @ 40°C	cSt	ASTM D445	65	<b>59.9</b>	60.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0046909 **Received** : 18 Jan 2024  
**Lab Number** : 06064221 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835603 **Diagnostician** : Wes Davis  
**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)

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com  
 T:  
 F: (740)373-5570