



# OIL ANALYSIS REPORT

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



Area  
**Store 8 - Pikeville**  
Machine Id  
**JOHN DEERE 850K 1T0850KXHKF347740**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (30 GAL)**

## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0032917</b>	LEC0023731	LEC0013076
Sample Date		Client Info		<b>21 Jul 2022</b>	15 Feb 2022	22 Oct 2020
Machine Age	hrs	Client Info		<b>2234</b>	1704	1115
Oil Age	hrs	Client Info		<b>2234</b>	1704	0
Filter Age	hrs	Client Info		<b>0</b>	0	403
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>16</b>	20	16
Iron	ppm	ASTM D5185m	>23	<b>15</b>	10	8
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	2	0
Lead	ppm	ASTM D5185m	>28	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>51	<b>4</b>	3	2
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

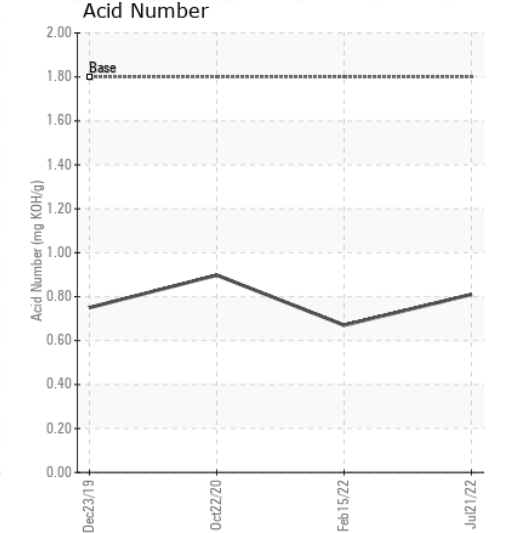
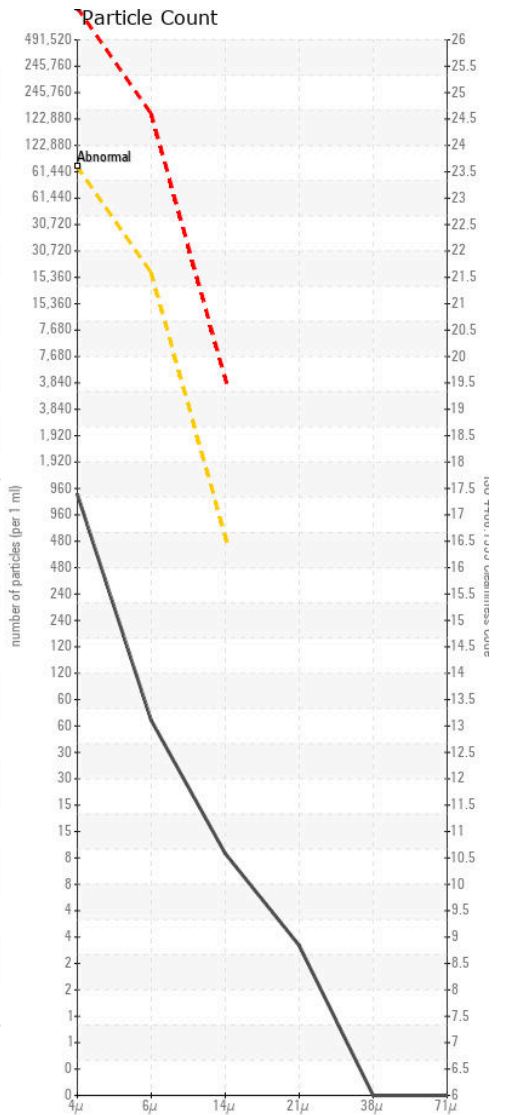
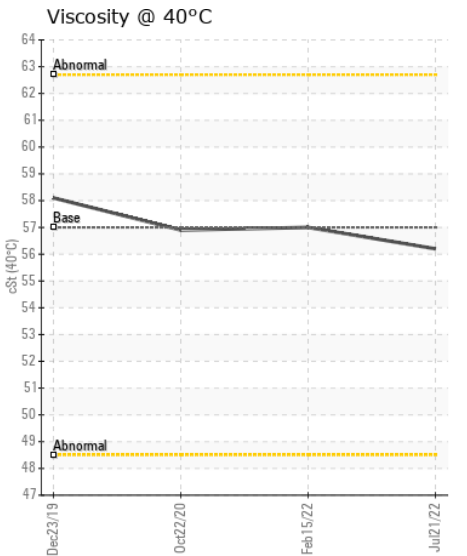
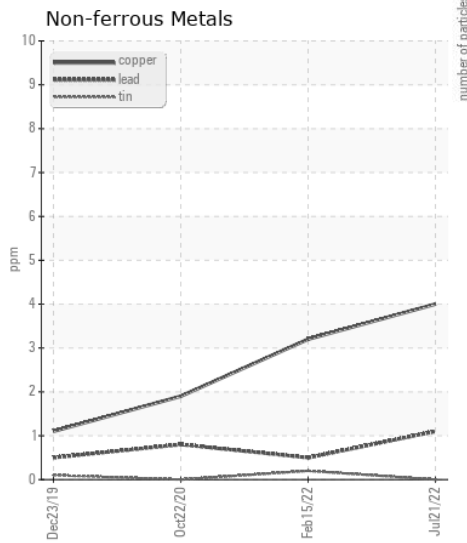
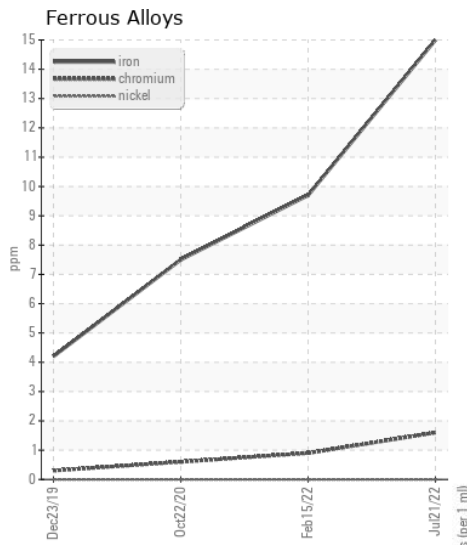
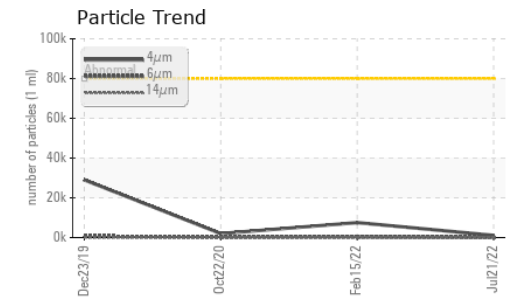
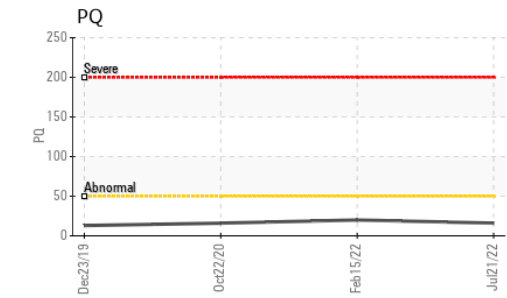
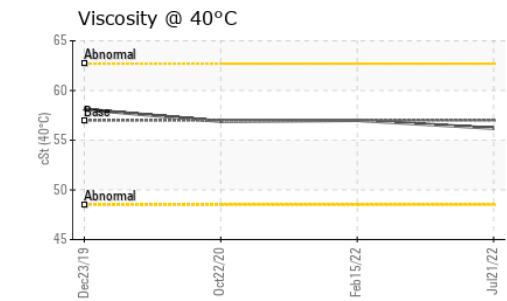
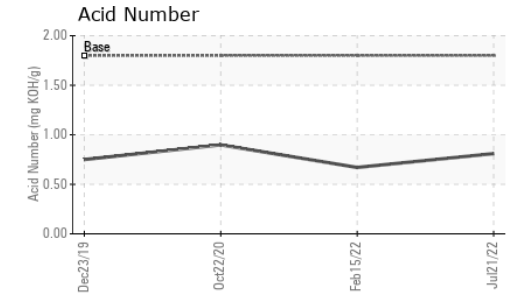
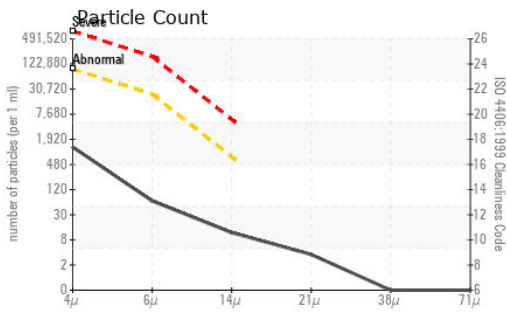
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>4</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	3
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>1103</b>	7524	1996
Particles >6µm		ASTM D7647	>20000	<b>57</b>	306	127
Particles >14µm		ASTM D7647	>640	<b>10</b>	13	14
Particles >21µm		ASTM D7647	>160	<b>3</b>	3	3
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>17/13/10</b>	20/15/11	18/14/11
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	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	<b>0</b>	<1	0
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	<1	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>1</b>	1	2
Calcium	ppm	ASTM D5185m	3570	<b>83</b>	85	83
Phosphorus	ppm	ASTM D5185m	1290	<b>602</b>	596	607
Zinc	ppm	ASTM D5185m	1640	<b>777</b>	755	708
Sulfur	ppm	ASTM D5185m		<b>1684</b>	1330	1347
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	<b>0.81</b>	0.67	0.898
Visc @ 40°C	cSt	ASTM D445	57.0	<b>56.2</b>	57.0	56.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0032917 **Received** : 25 Jul 2022  
**Lab Number** : 05599402 **Tested** : 28 Jul 2022  
**Unique Number** : 10063882 **Diagnosed** : 28 Jul 2022 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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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