



OIL ANALYSIS REPORT

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



Area  
**Store 5 - Cross Lanes**  
 Machine Id  
**JOHN DEERE 250G 1FF250GXPNF611983**  
 Component  
**Hydraulic System**  
 Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)**

**RECOMMENDATION**

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0043243</b>	LEC0041862	LEC0039416
Sample Date		Client Info		<b>26 Sep 2023</b>	30 May 2023	23 Feb 2023
Machine Age	hrs	Client Info		<b>930</b>	474	400
Oil Age	hrs	Client Info		<b>930</b>	474	400
Filter Age	hrs	Client Info		<b>930</b>	474	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

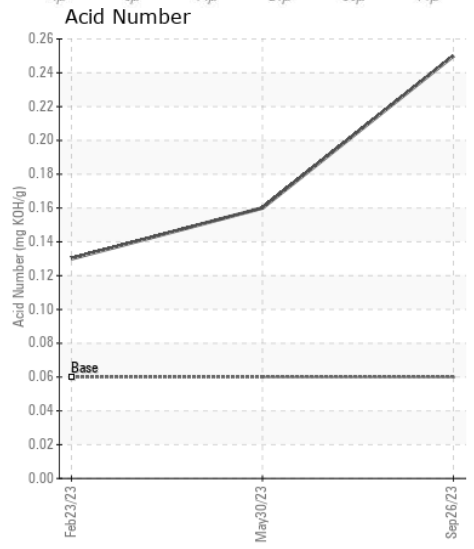
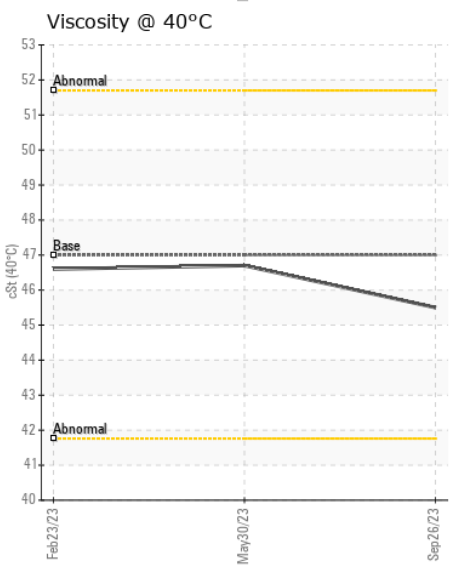
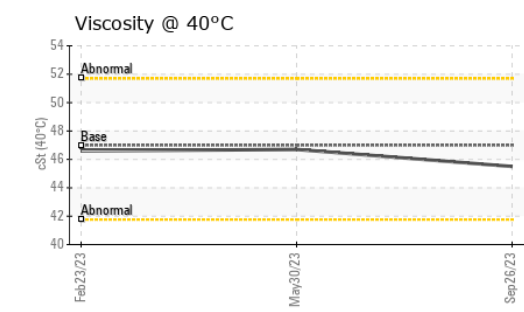
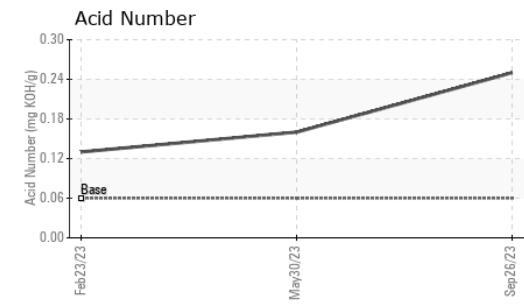
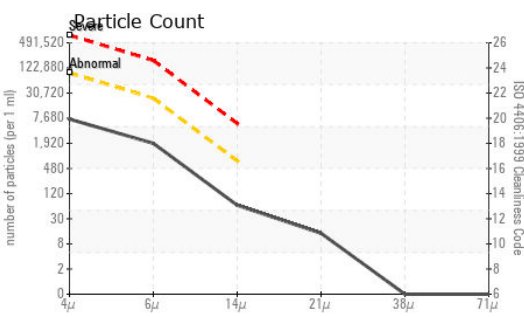
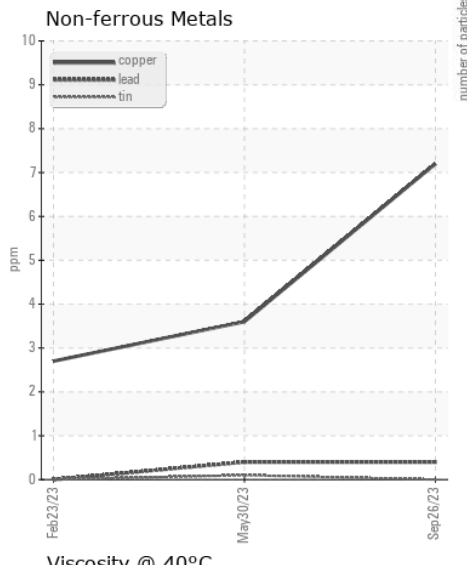
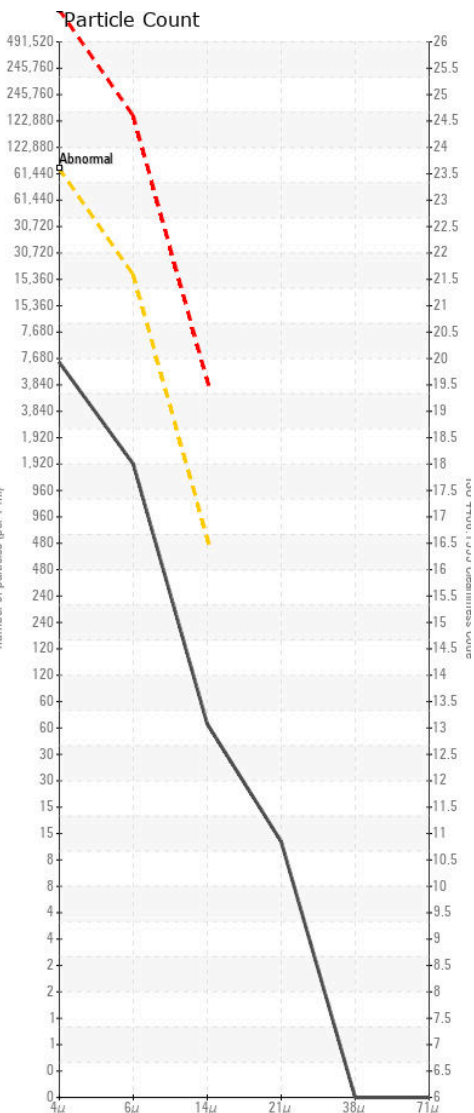
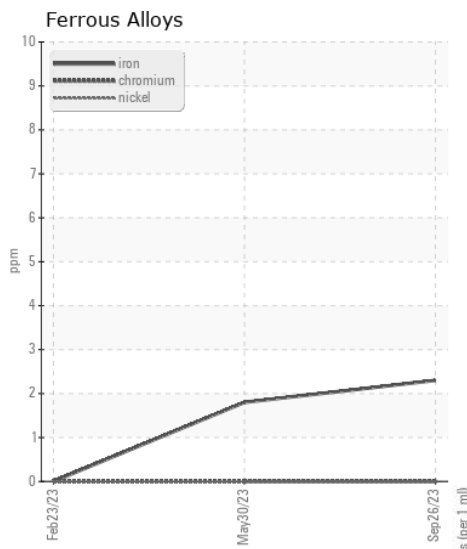
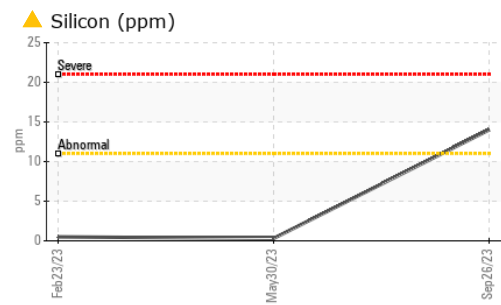
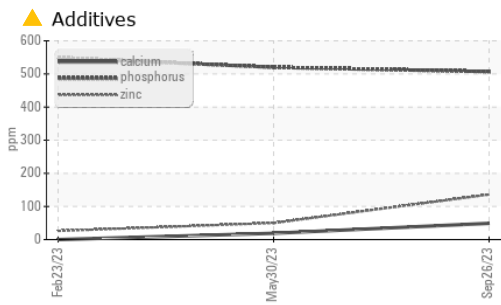
PQ		ASTM D8184	>50	<b>12</b>	12	17
Iron	ppm	ASTM D5185m	>32	<b>2</b>	2	0
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>28	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>7</b>	4	3
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>▲ LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

Silicon	ppm	ASTM D5185m	>11	<b>▲ 14</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>6353</b>	543	1048
Particles >6µm		ASTM D7647	>20000	<b>1681</b>	115	189
Particles >14µm		ASTM D7647	>640	<b>56</b>	10	16
Particles >21µm		ASTM D7647	>160	<b>12</b>	2	3
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>20/18/13</b>	16/14/10	17/15/11
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**

Sodium	ppm	ASTM D5185m	>21	<b>1</b>	0	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	4	0
Calcium	ppm	ASTM D5185m		<b>49</b>	19	0
Phosphorus	ppm	ASTM D5185m	827	<b>507</b>	520	549
Zinc	ppm	ASTM D5185m	0	<b>▲ 136</b>	50	26
Sulfur	ppm	ASTM D5185m	13	<b>651</b>	183	86
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.25</b>	0.16	0.13
Visc @ 40°C	cSt	ASTM D445	47	<b>45.5</b>	46.7	46.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0043243 **Received** : 28 Sep 2023  
**Lab Number** : 05963481 **Diagnosed** : 06 Jan 2024  
**Unique Number** : 10670032 **Diagnostician** : System  
**Test Package** : CONST ( Additional Tests: PQ )

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

Certificate L2367  
 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)