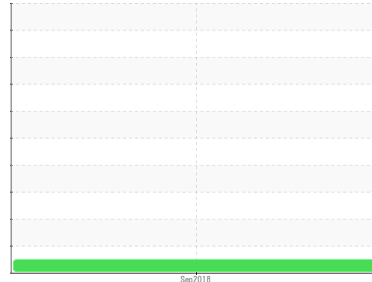




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Store 5 - Cross Lanes**  
 Machine Id  
**JOHN DEERE 210G 1FF210GXKJF525550**  
 Component  
**Hydraulic System**  
 Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (36 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>LECP186795</b>	---	---
Sample Date	Client Info		<b>26 Sep 2018</b>	---	---
Machine Age	hrs	Client Info	<b>574</b>	---	---
Oil Age	hrs	Client Info	<b>574</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>50	<b>20</b>	---	---
Iron	ppm	ASTM D5185m	>32	<b>1</b>	---
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>9	<b>0</b>	---
Lead	ppm	ASTM D5185m	>28	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>50	<b>3</b>	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	---
Antimony	ppm	ASTM D5185m		<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185m		<b>15</b>	---
Phosphorus	ppm	ASTM D5185m	827	<b>538</b>	---
Zinc	ppm	ASTM D5185m	0	<b>31</b>	---
Sulfur	ppm	ASTM D5185m	13	<b>170</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	<b>1</b>	---
Sodium	ppm	ASTM D5185m	>21	<b>&lt;1</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---

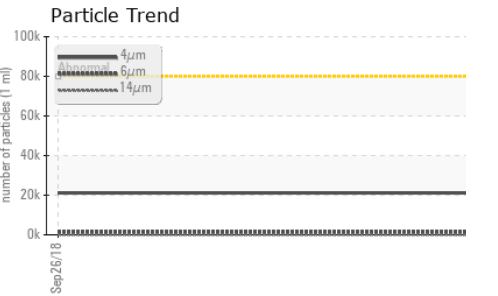
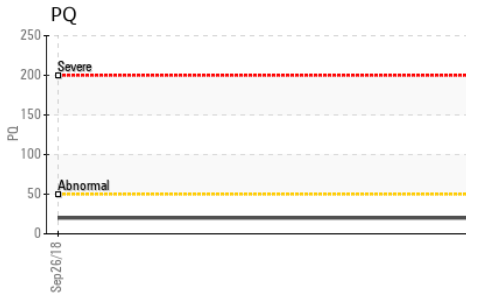
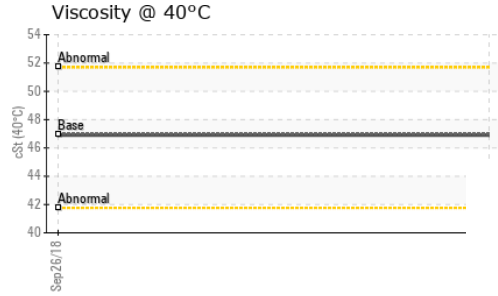
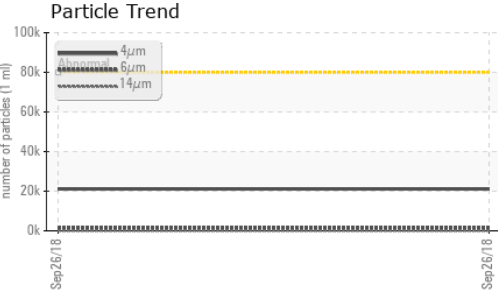
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	<b>21168</b>	---	---
Particles >6µm	ASTM D7647	>20000	<b>1654</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>64</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>18</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>23/21/16	<b>22/18/13</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.198</b>	---

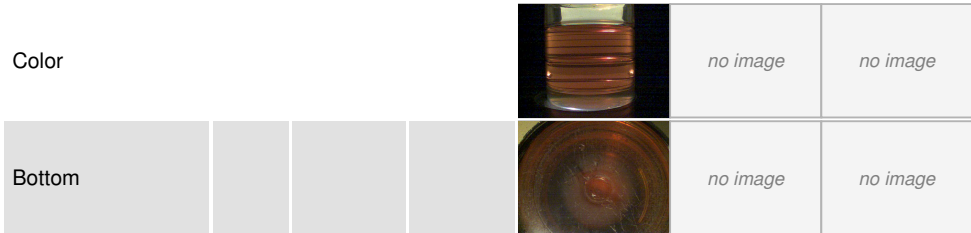
# OIL ANALYSIS REPORT



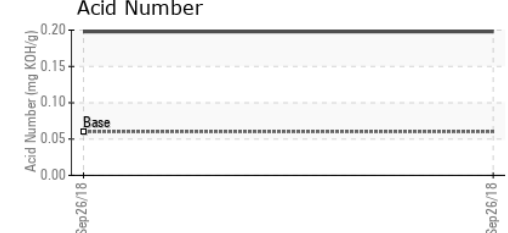
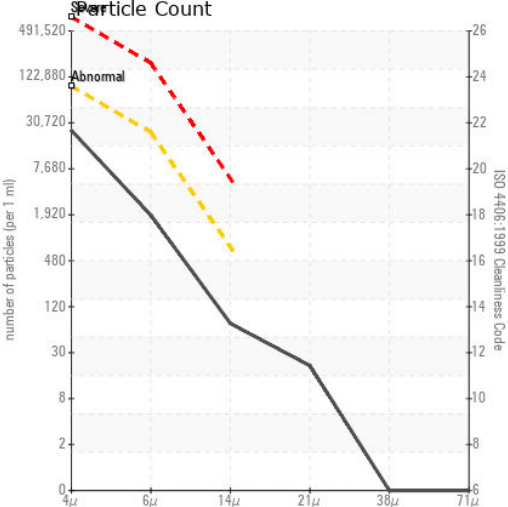
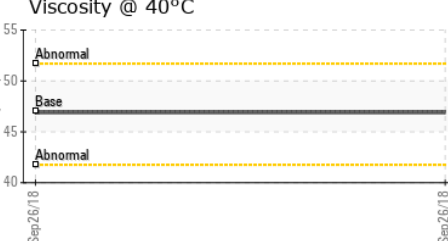
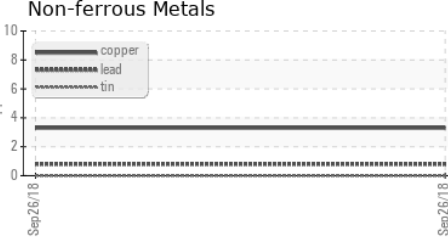
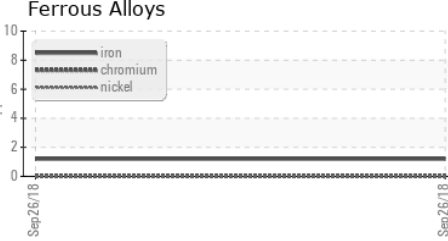
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 47	46.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LECP186795 **Received** : 28 Sep 2018  
**Lab Number** : 04561317 **Diagnosed** : 01 Oct 2018  
**Unique Number** : 8345175 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PQ )

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

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)