



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**Store 2 - Beaver [75188]**

Machine Id  
**JOHN DEERE 35D 1FF035DXTCG270900**

Component  
**Hydraulic System**

Fluid  
**HITACHI HYDRAULIC SUPER EX 46HN (25 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LECP178160</b>	LECP133708	---
Sample Date		Client Info		<b>26 Apr 2018</b>	26 Feb 2014	---
Machine Age	hrs	Client Info		<b>290</b>	2	---
Oil Age	hrs	Client Info		<b>290</b>	2	---
Filter Age	hrs	Client Info		<b>290</b>	2	---
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Filter Changed		Client Info		<b>Changed</b>	Not Chngd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>16</b>	10.0	---
Iron	ppm	ASTM D5185m	>32	<b>2</b>	1	---
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m	>28	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
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**

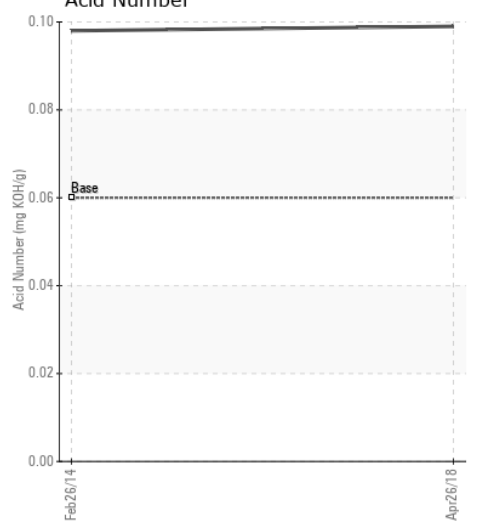
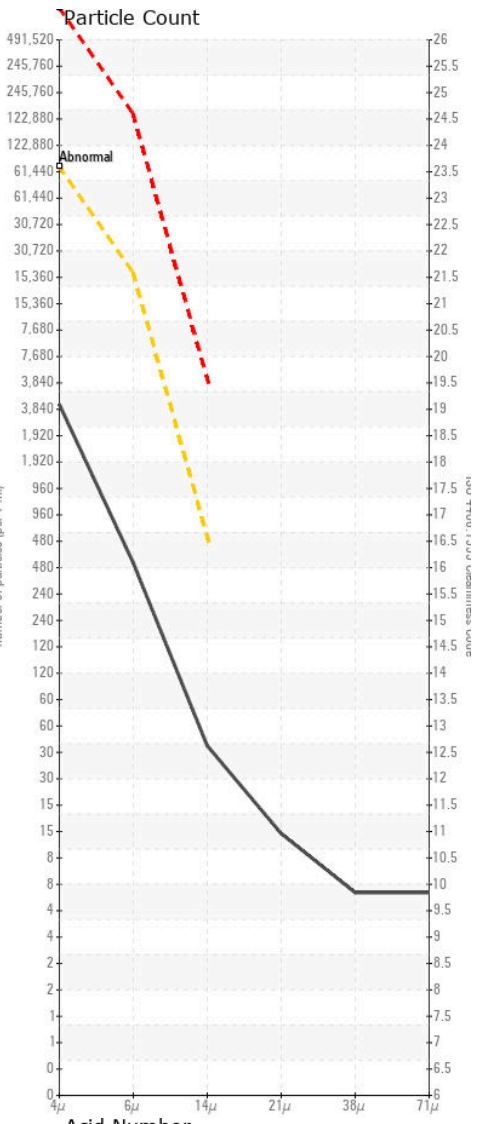
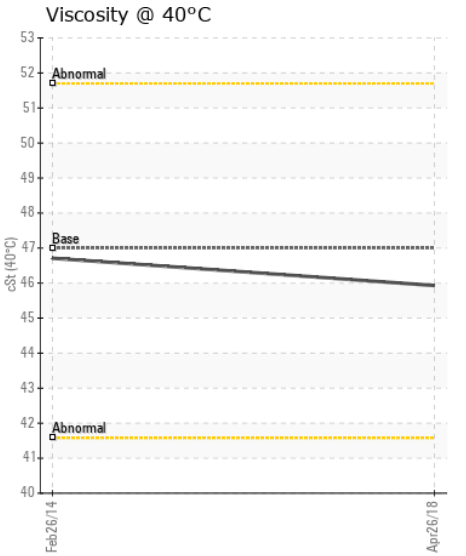
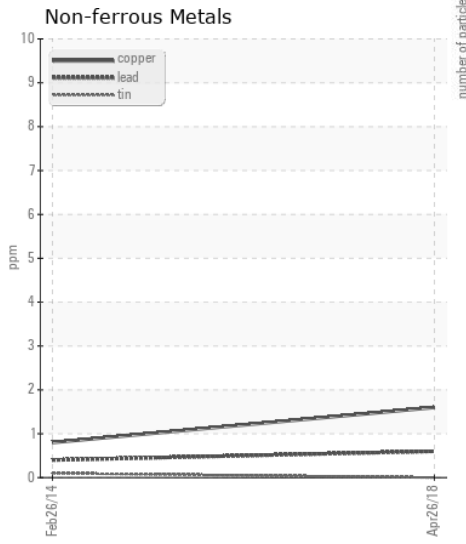
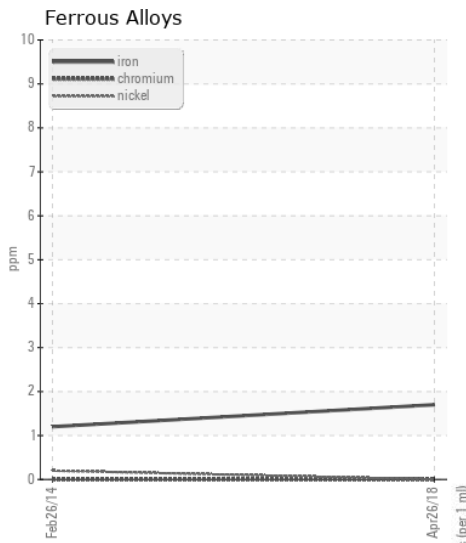
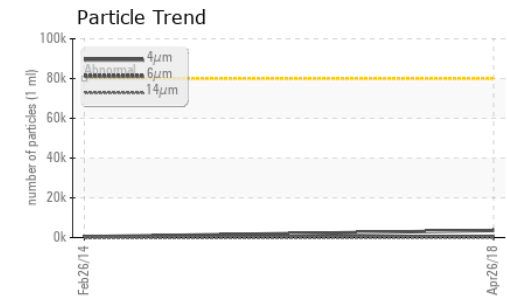
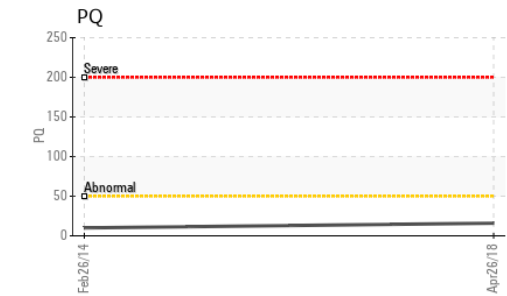
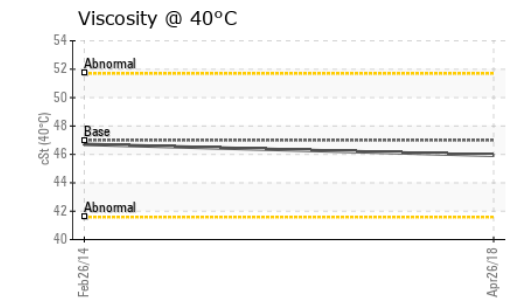
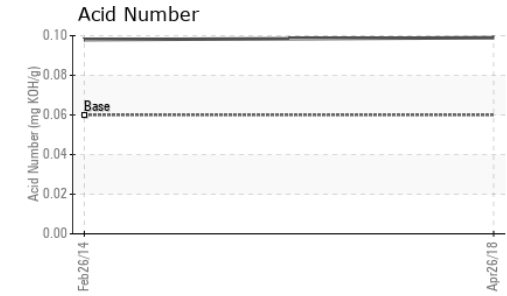
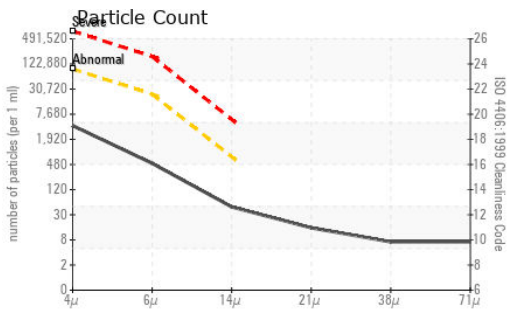
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	<b>4</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>3577</b>	437.	---
Particles >6µm		ASTM D7647	>20000	<b>449</b>	238.	---
Particles >14µm		ASTM D7647	>640	<b>41</b>	40.	---
Particles >21µm		ASTM D7647	>160	<b>13</b>	13.	---
Particles >38µm		ASTM D7647	>40	<b>6</b>	2.	---
Particles >71µm		ASTM D7647	>10	<b>6</b>	0.	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>19/16/13</b>	16/15/12	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
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>	<1	---
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>6</b>	12	---
Calcium	ppm	ASTM D5185m		<b>5</b>	5	---
Phosphorus	ppm	ASTM D5185m	827	<b>275</b>	396	---
Zinc	ppm	ASTM D5185m	0	<b>36</b>	17	---
Sulfur	ppm	ASTM D5185m	13	<b>454</b>	566	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.099</b>	0.098	---
Visc @ 40°C	cSt	ASTM D445	47	<b>45.93</b>	46.71	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC178160 **Received** : 30 Apr 2018  
**Lab Number** : 04460662 **Tested** : 01 May 2018  
**Unique Number** : 8184432 **Diagnosed** : 01 May 2018 - 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

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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