



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

Store 4 - Fairmont

Machine Id

JOHN DEERE 650J T0650JX133890

Component

Hydraulic System

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (17 GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LECP184085	LECP156463	---
Sample Date		Client Info		22 Jan 2019	17 Apr 2015	---
Machine Age	hrs	Client Info		3350	2462	---
Oil Age	hrs	Client Info		3350	0	---
Filter Age	hrs	Client Info		3350	227	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The iron level is abnormal. The chromium level is abnormal.

PQ		ASTM D8184	>50	46	30.0	---
Iron	ppm	ASTM D5185m	>23	▲ 60	▲ 26	---
Chromium	ppm	ASTM D5185m	>9	▲ 20	8	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>9	12	6	---
Lead	ppm	ASTM D5185m	>28	0	<1	---
Copper	ppm	ASTM D5185m	>51	30	16	---
Tin	ppm	ASTM D5185m	>5	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

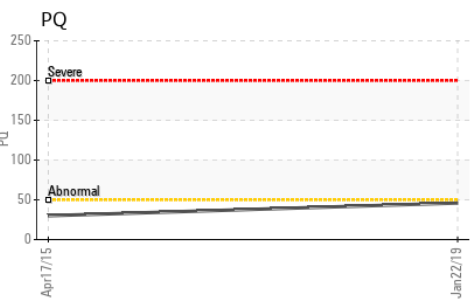
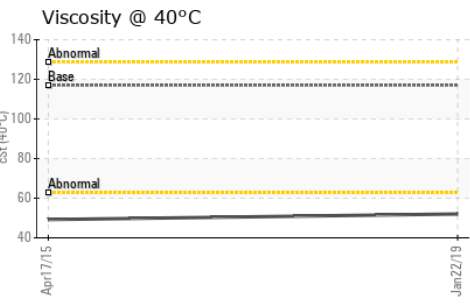
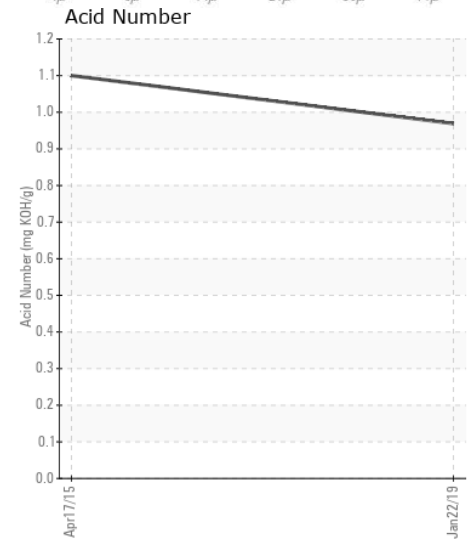
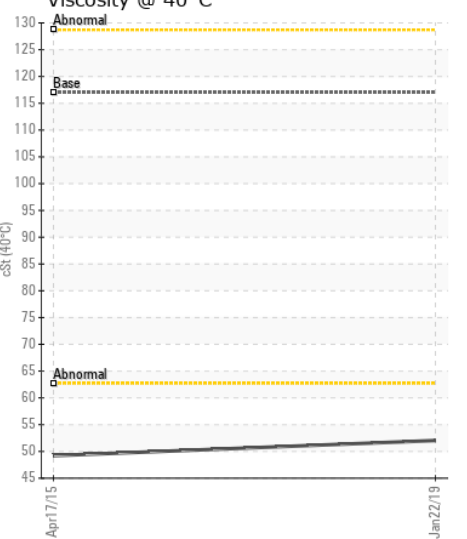
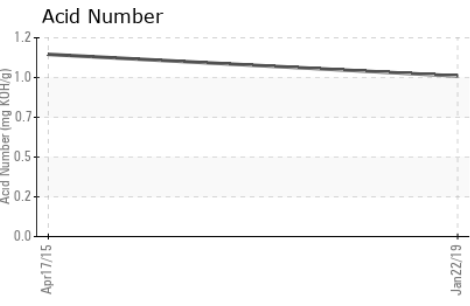
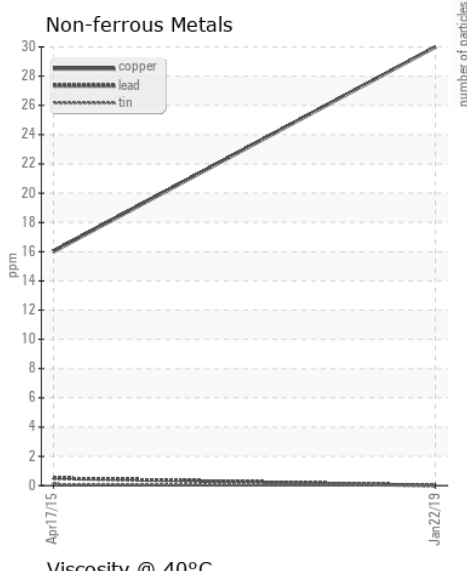
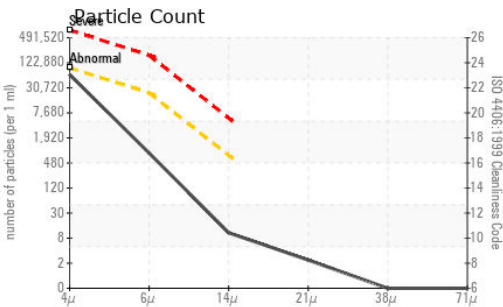
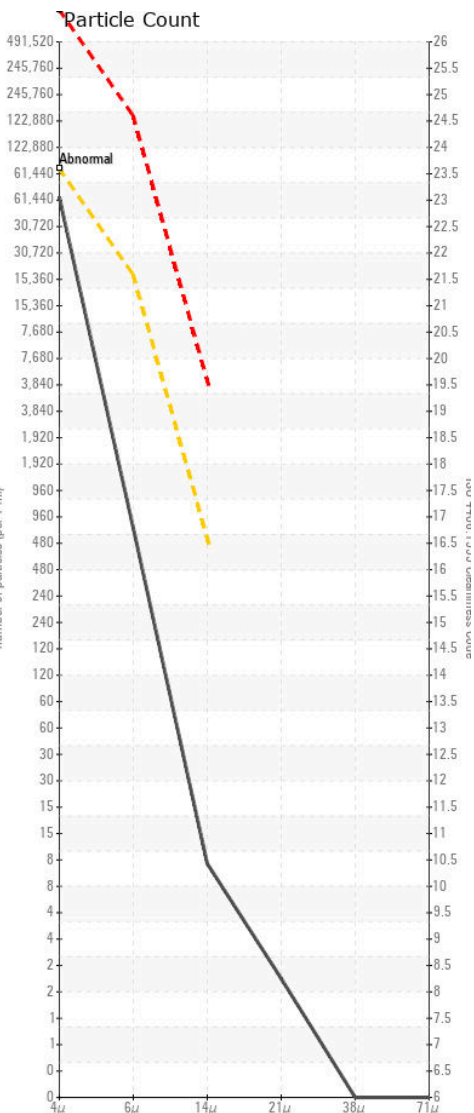
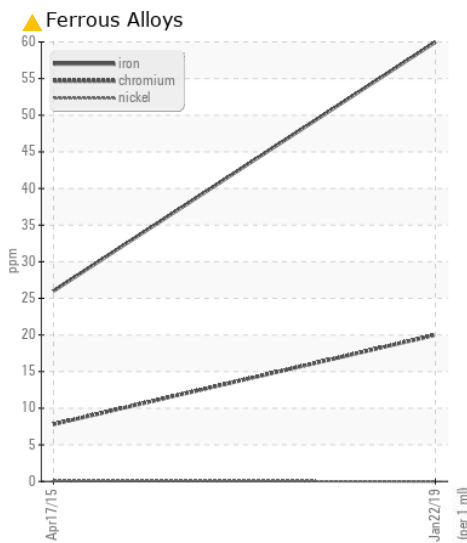
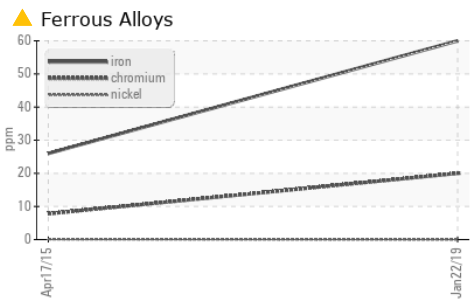
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>31	20	10	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	55226	369	---
Particles >6µm		ASTM D7647	>20000	727	201	---
Particles >14µm		ASTM D7647	>640	9	34	---
Particles >21µm		ASTM D7647	>160	2	11	---
Particles >38µm		ASTM D7647	>40	0	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/17/10	16/15/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	7	7	---
Boron	ppm	ASTM D5185m		81	9	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		16	4	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		110	63	---
Calcium	ppm	ASTM D5185m		1411	1473	---
Phosphorus	ppm	ASTM D5185m		723	715	---
Zinc	ppm	ASTM D5185m		852	817	---
Sulfur	ppm	ASTM D5185m		2394	3496	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.969	1.10	---
Visc @ 40°C	cSt	ASTM D445	117	52.04	49.21	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LECP184085 **Received** : 25 Jan 2019
Lab Number : 04637872 **Tested** : 28 Jan 2019
Unique Number : 8474307 **Diagnosed** : 28 Jan 2019 - Don Baldrige
Test Package : MOB 2 (Additional Tests: PQ)

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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)