



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont [RO# 152035]
Machine Id
JOHN DEERE 650J T0650JX133890
Component
Left Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

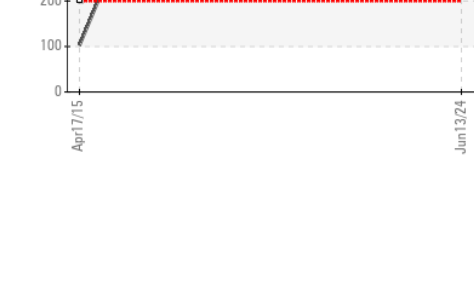
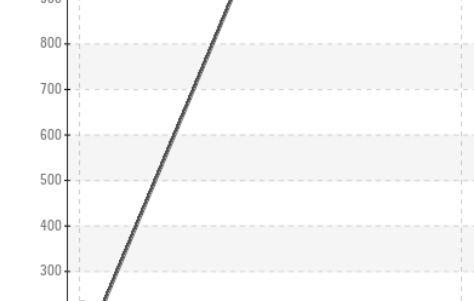
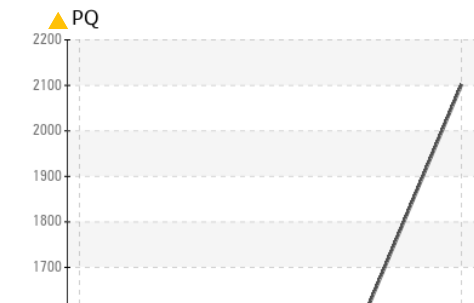
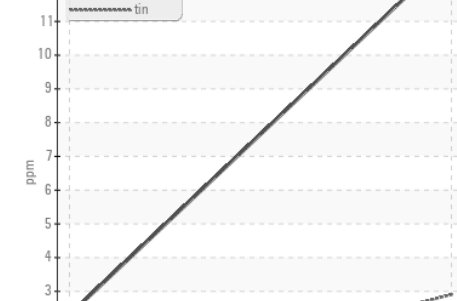
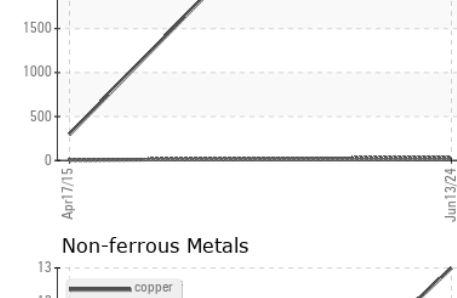
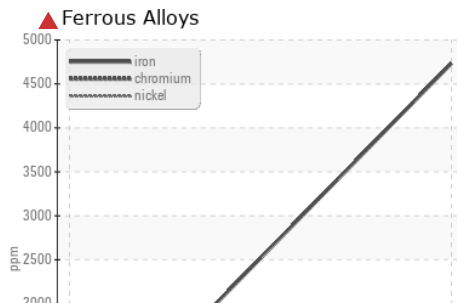
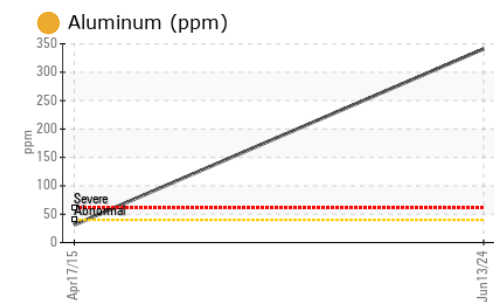
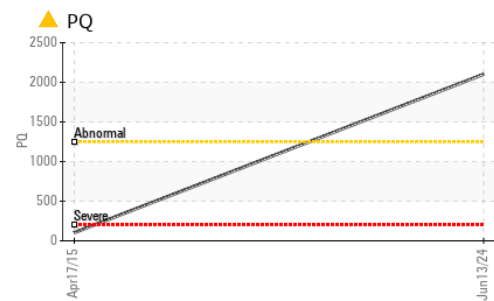
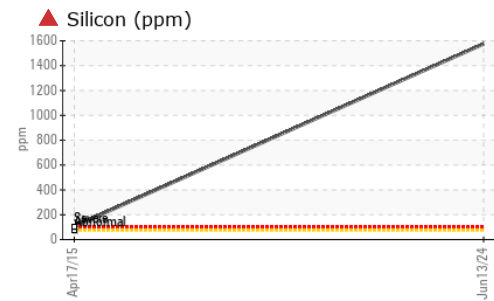
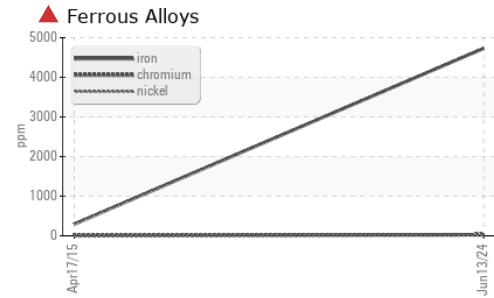
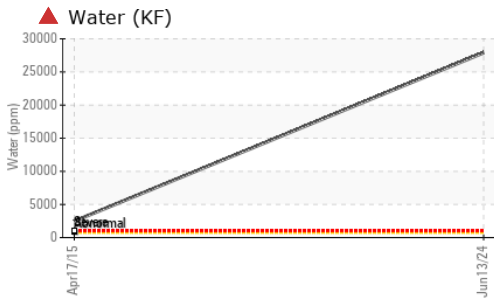
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048361	LECP156466	---
Sample Date		Client Info		13 Jun 2024	17 Apr 2015	---
Machine Age	hrs	Client Info		4152	2462	---
Oil Age	hrs	Client Info		1690	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---
PQ		ASTM D8184	>1250	▲ 2102	103	---
Iron	ppm	ASTM D5185m	>750	▲ 4732	296	---
Chromium	ppm	ASTM D5185m	>9	▲ 30	4	---
Nickel	ppm	ASTM D5185m	>10	▲ 10	<1	---
Titanium	ppm	ASTM D5185m		27	1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>40	● 341	● 31	---
Lead	ppm	ASTM D5185m	>15	2	<1	---
Copper	ppm	ASTM D5185m	>40	13	2	---
Tin	ppm	ASTM D5185m	>10	3	0	---
Vanadium	ppm	ASTM D5185m		2	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 1575	▲ 106	---
Potassium	ppm	ASTM D5185m	>20	107	34	---
Water	%	ASTM D6304	>0.075	▲ 2.79	▲ 0.248	---
ppm Water	ppm	ASTM D6304	>750	▲ 27900	▲ 2480	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	▲ 0.2%	▲ 0.2%	---
Sodium	ppm	ASTM D5185m	>51	25	8	---
Boron	ppm	ASTM D5185m	6	84	7	---
Barium	ppm	ASTM D5185m	0	3	0	---
Molybdenum	ppm	ASTM D5185m	0	50	1	---
Manganese	ppm	ASTM D5185m		48	5	---
Magnesium	ppm	ASTM D5185m	145	246	117	---
Calcium	ppm	ASTM D5185m	3570	2731	3616	---
Phosphorus	ppm	ASTM D5185m	1290	1075	1100	---
Zinc	ppm	ASTM D5185m	1640	1162	1252	---
Sulfur	ppm	ASTM D5185m		4340	5170	---
Visc @ 40°C	cSt	ASTM D445	57.0	61.4	47.33	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048361 **Received** : 17 Jun 2024
Lab Number : 06212005 **Tested** : 18 Jun 2024
Unique Number : 11084869 **Diagnosed** : 19 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

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)

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

T:
 F: (740)373-5570