



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 850K 1T0850KXCDE246953
Component
Right Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (4 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for data entry and diagnostic comment updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0014006	LECP141571	---
Sample Date		Client Info		06 Aug 2020	17 Sep 2014	---
Machine Age	hrs	Client Info		5933	532	---
Oil Age	hrs	Client Info		1000	532	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	NORMAL	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	426	52.0	---
Iron	ppm	ASTM D5185m	>750	▲ 2625	84	---
Chromium	ppm	ASTM D5185m	>9	▲ 28	4	---
Nickel	ppm	ASTM D5185m	>10	▲ 13	0	---
Titanium	ppm	ASTM D5185m		▲ 18	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>40	▲ 233	5	---
Lead	ppm	ASTM D5185m	>15	4	2	---
Copper	ppm	ASTM D5185m	>40	6	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

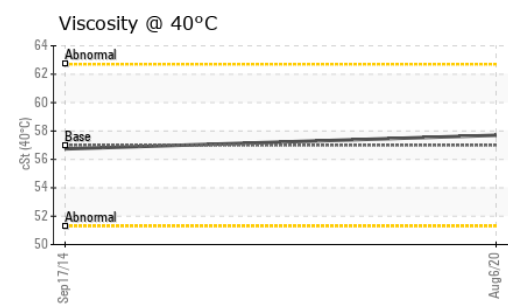
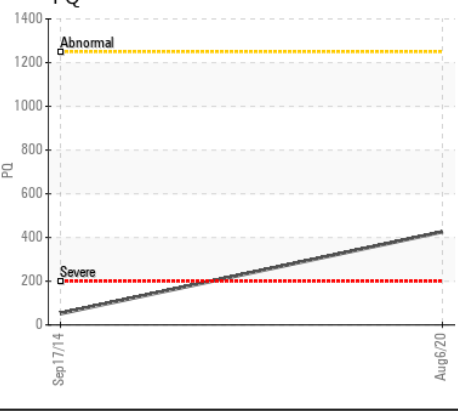
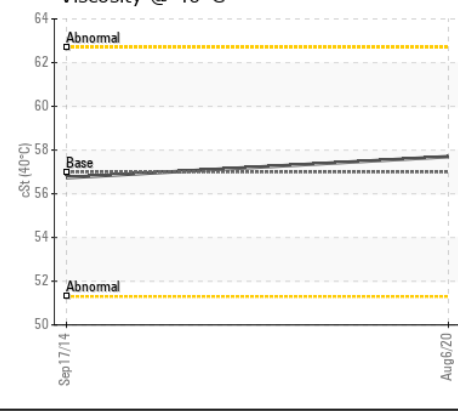
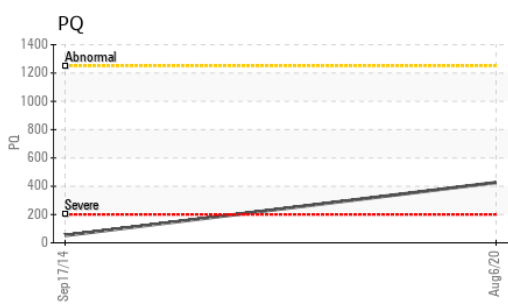
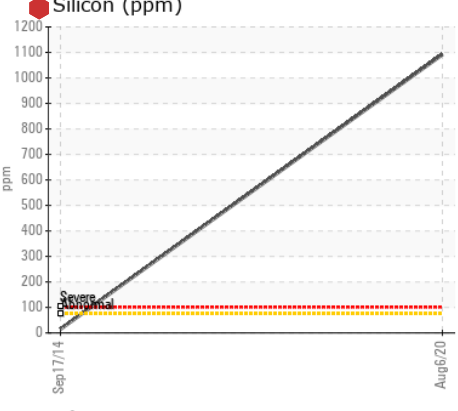
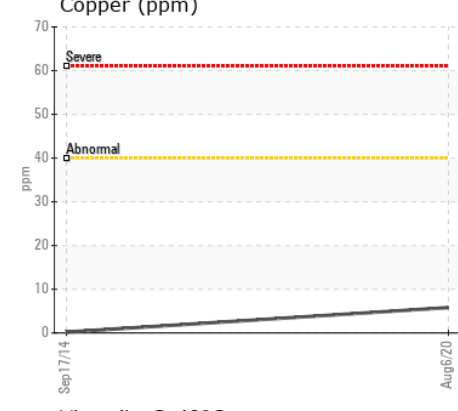
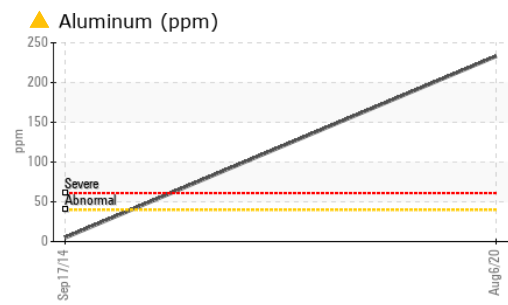
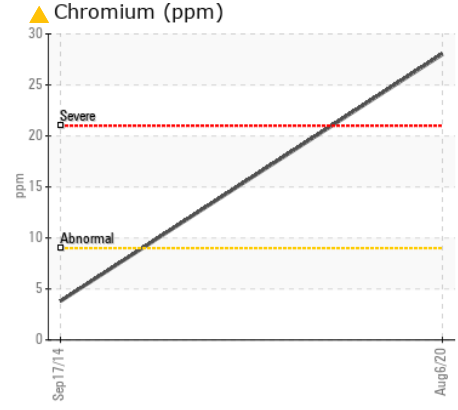
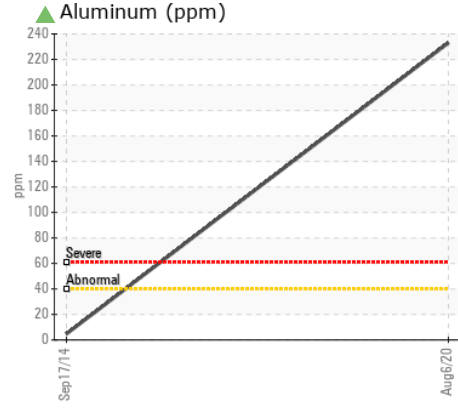
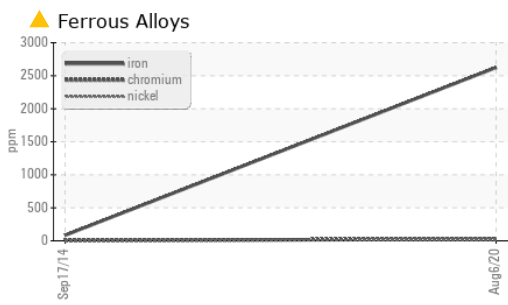
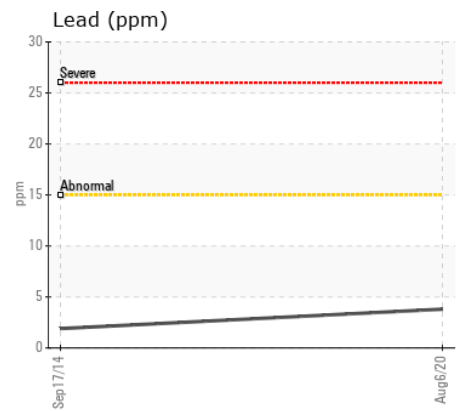
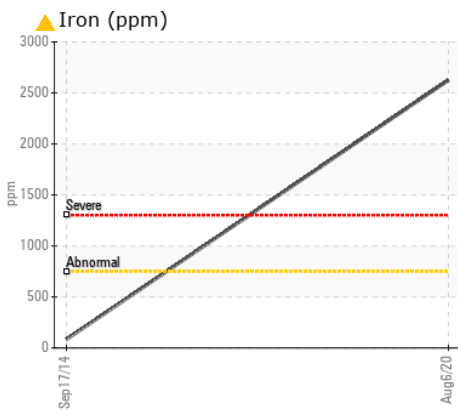
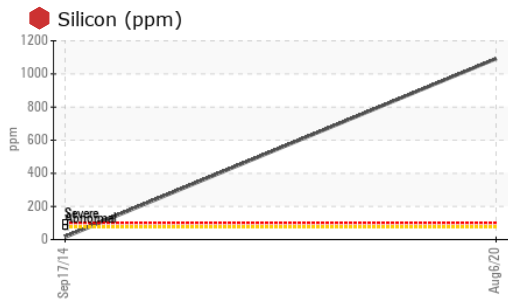
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 1092	15	---
Potassium	ppm	ASTM D5185m	>20	62	<1	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	15	1	---
Boron	ppm	ASTM D5185m	6	9	1	---
Barium	ppm	ASTM D5185m	0	1	0	---
Molybdenum	ppm	ASTM D5185m	0	0	1	---
Manganese	ppm	ASTM D5185m		26	1	---
Magnesium	ppm	ASTM D5185m	145	97	116	---
Calcium	ppm	ASTM D5185m	3570	3304	3762	---
Phosphorus	ppm	ASTM D5185m	1290	995	1064	---
Zinc	ppm	ASTM D5185m	1640	1027	1377	---
Sulfur	ppm	ASTM D5185m		5320	0	---
Visc @ 40°C	cSt	ASTM D445	57.0	57.7	56.74	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0014006 **Received** : 10 Aug 2020
Lab Number : 05040285 **Diagnosed** : 08 Jan 2024
Unique Number : 9130455 **Diagnostician** : Doug Bogart
Test Package : MOBCE (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)