



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 9 - Marietta

Machine Id

JOHN DEERE 260E 1DW260ETTJF692919

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0025173	LEC0004453	---
Sample Date		Client Info		27 Aug 2021	02 Jul 2019	---
Machine Age	hrs	Client Info		900	386	---
Oil Age	hrs	Client Info		514	386	---
Filter Age	hrs	Client Info		514	386	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Iron	ppm	ASTM D5185m	>51	57	29	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	4	5	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	3	4	---
Lead	ppm	ASTM D5185m	>26	<1	4	---
Copper	ppm	ASTM D5185m	>26	▲ 207	▲ 124	---
Tin	ppm	ASTM D5185m	>4	1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

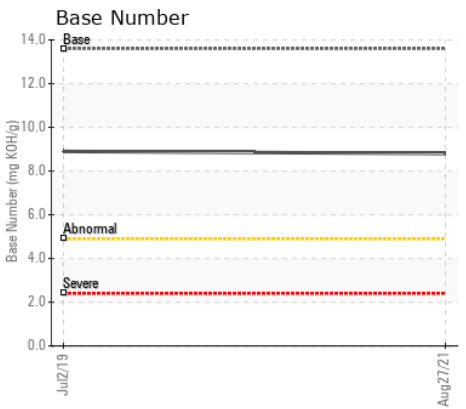
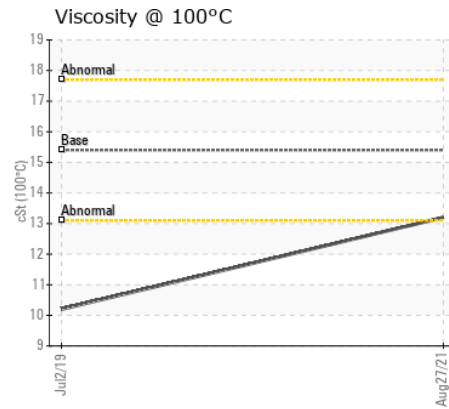
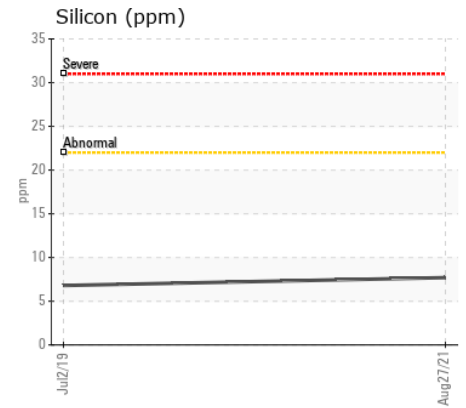
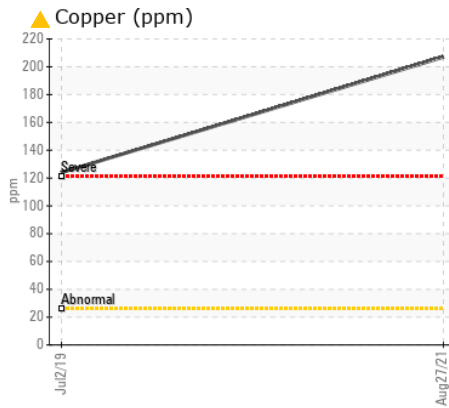
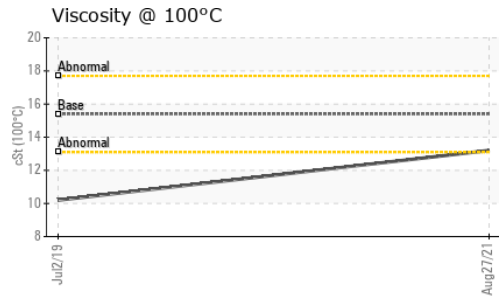
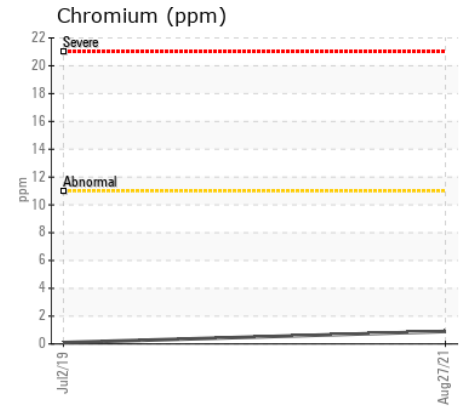
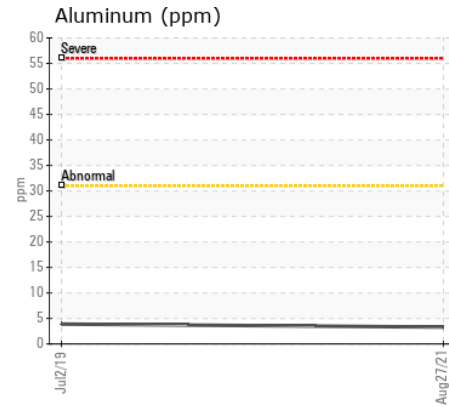
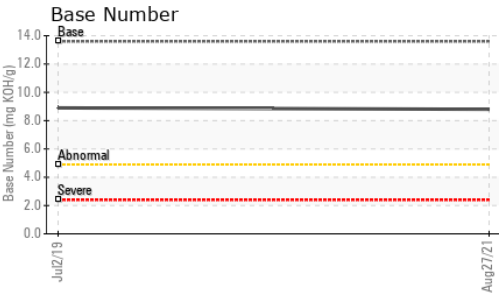
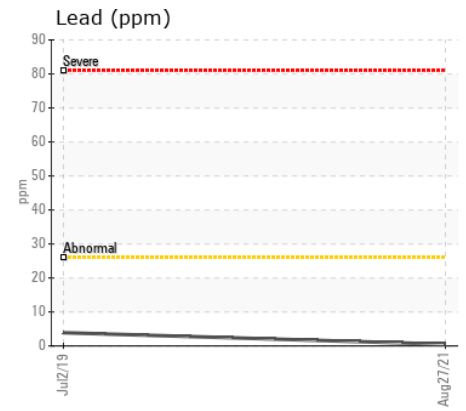
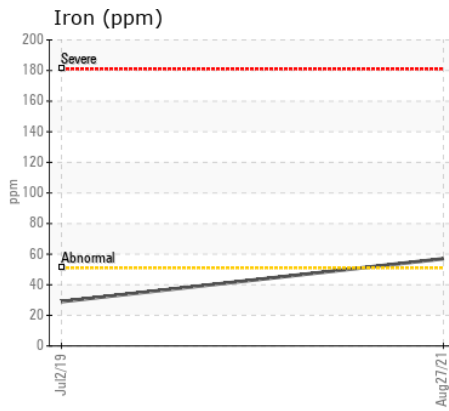
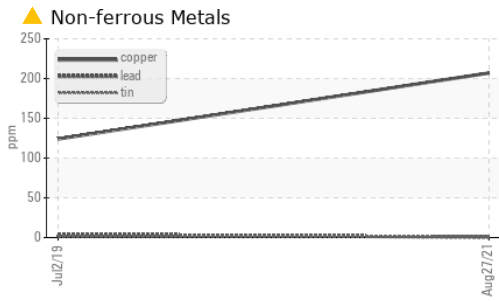
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	7	---
Potassium	ppm	ASTM D5185m	>20	4	15	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	20.4	---
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	>0.21	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	3	17	---
Boron	ppm	ASTM D5185m		269	194	---
Barium	ppm	ASTM D5185m		<1	<1	---
Molybdenum	ppm	ASTM D5185m		253	209	---
Manganese	ppm	ASTM D5185m		1	3	---
Magnesium	ppm	ASTM D5185m		847	820	---
Calcium	ppm	ASTM D5185m		1528	1365	---
Phosphorus	ppm	ASTM D5185m		932	1058	---
Zinc	ppm	ASTM D5185m		1084	1027	---
Sulfur	ppm	ASTM D5185m		2602	2967	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.9	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	10.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0025173 **Received** : 01 Sep 2021
Lab Number : 05340131 **Diagnosed** : 02 Sep 2021
Unique Number : 9644170 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: TBN)

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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)