



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 210G 1FF210GXCNF530233
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 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		LEC0043891	LEC0042183	LEC0042183
Sample Date		Client Info		14 Sep 2023	30 Aug 2023	30 Aug 2023
Machine Age	hrs	Client Info		963	882	882
Oil Age	hrs	Client Info		81	424	424
Filter Age	hrs	Client Info		81	424	424
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	8	94	26
Chromium	ppm	ASTM D5185m	>11	<1	2	1
Nickel	ppm	ASTM D5185m	>5	2	<1	7
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	4	4
Lead	ppm	ASTM D5185m	>26	0	0	0
Copper	ppm	ASTM D5185m	>26	11	3	▲ 86
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

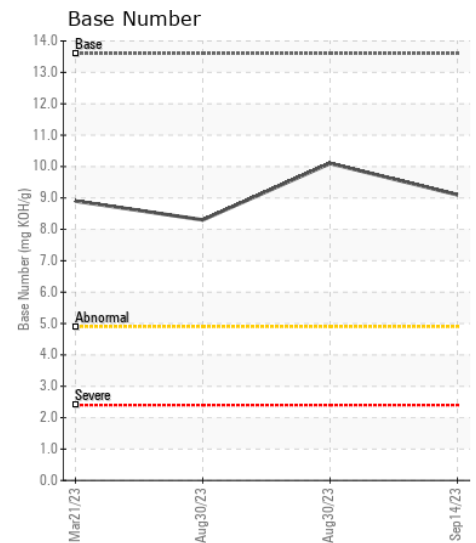
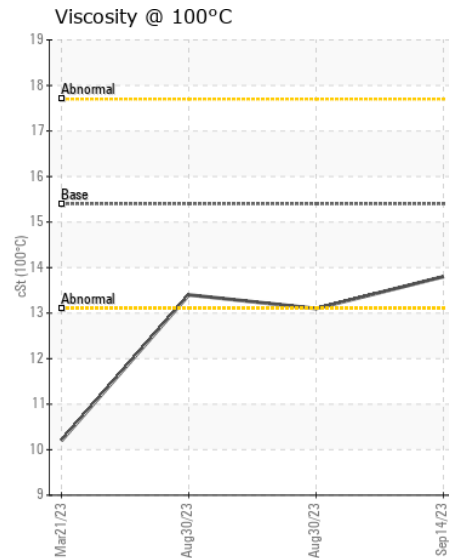
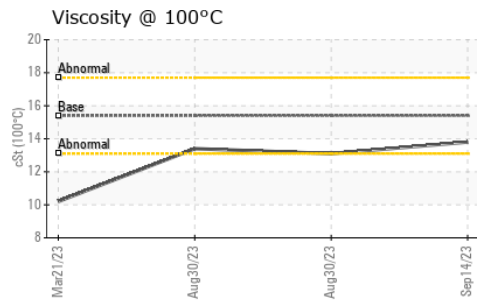
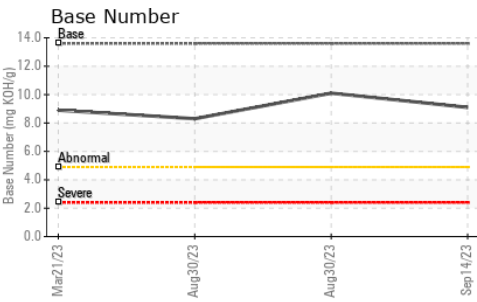
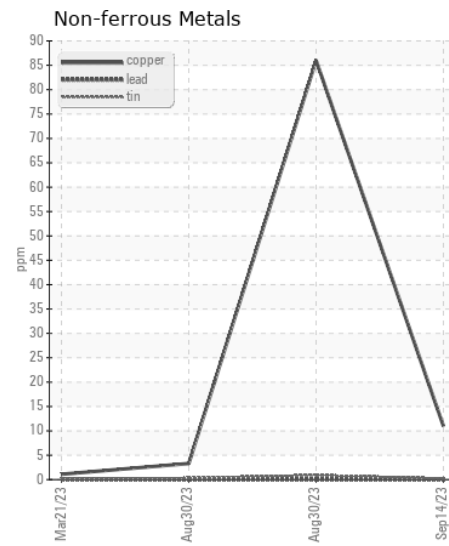
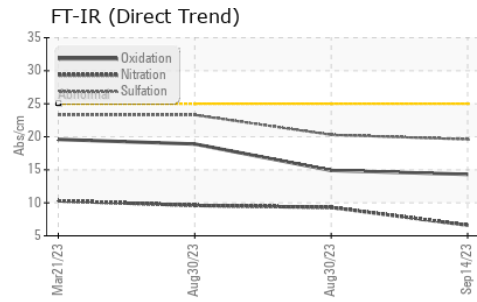
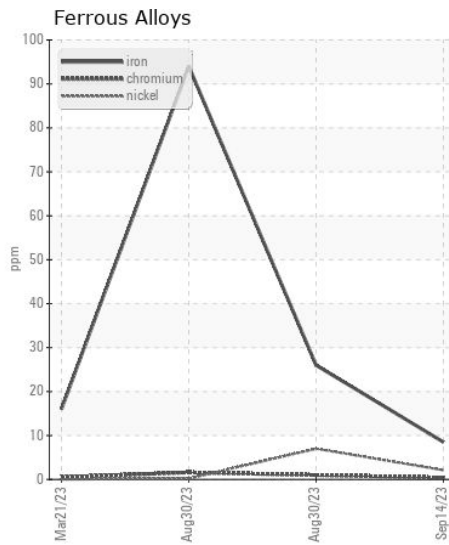
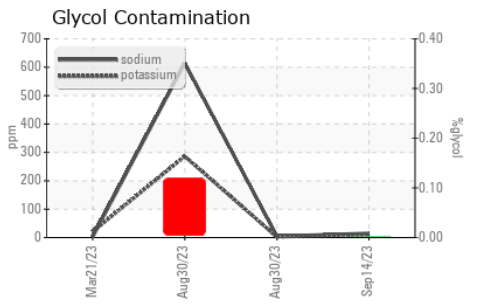
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	7	11	8
Potassium	ppm	ASTM D5185m	>20	11	▲ 286	2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.0	▲ 0.12	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.6	9.3	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	20.3	23.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	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	15	● 614	5
Boron	ppm	ASTM D5185m		268	35	185
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		256	189	238
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m		800	610	824
Calcium	ppm	ASTM D5185m		1472	1734	1727
Phosphorus	ppm	ASTM D5185m		949	959	951
Zinc	ppm	ASTM D5185m		1119	1156	1222
Sulfur	ppm	ASTM D5185m		3183	3964	3660
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.9	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.1	10.1	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.1	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043891 **Received** : 18 Sep 2023
Lab Number : 05953808 **Tested** : 20 Sep 2023
Unique Number : 10655021 **Diagnosed** : 20 Sep 2023 - Doug Bogart
Test Package : CONST (Additional Tests: TBN)

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)

T:
F: (740)373-5570