



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 210G 1FF210GXCNF530286
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042786	LEC0041073	LEC0037835
Sample Date		Client Info		11 Oct 2023	13 Jul 2023	28 Dec 2022
Machine Age	hrs	Client Info		1570	1083	612
Oil Age	hrs	Client Info		487	502	31
Filter Age	hrs	Client Info		487	502	31
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	21	32	11
Chromium	ppm	ASTM D5185m	>11	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	6	▲ 9	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	4	2
Lead	ppm	ASTM D5185m	>26	<1	0	0
Copper	ppm	ASTM D5185m	>26	12	▲ 64	▲ 62
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

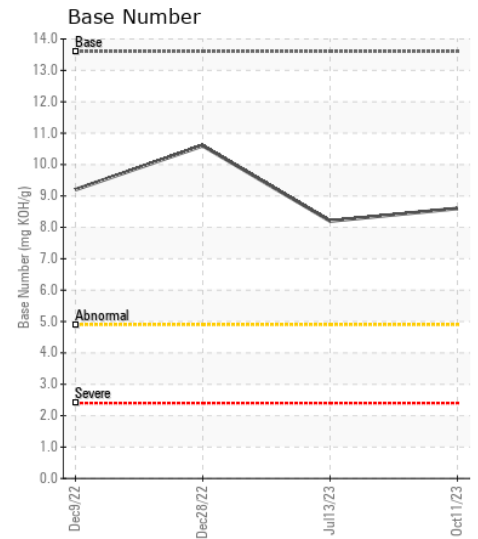
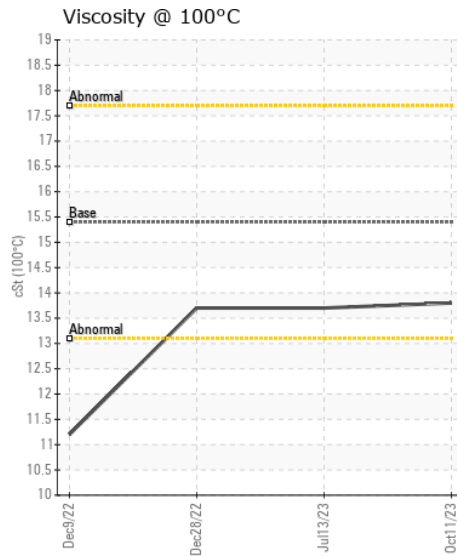
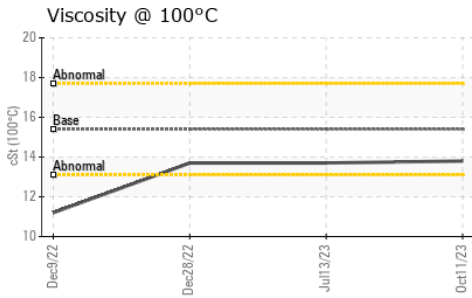
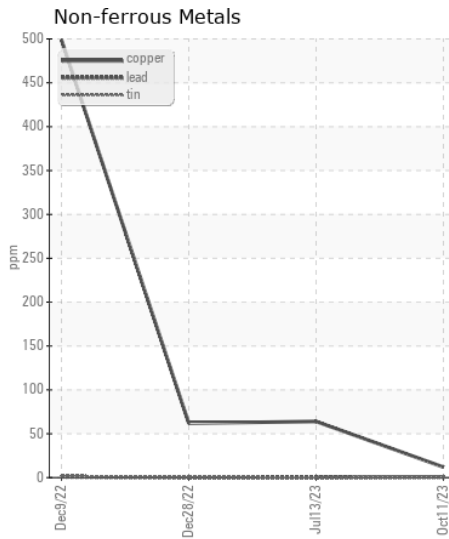
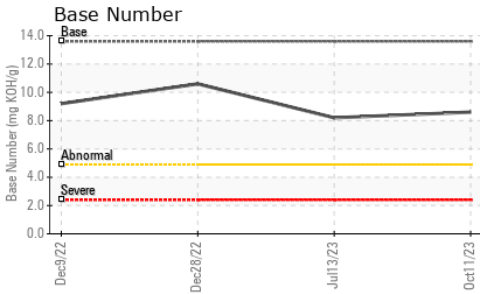
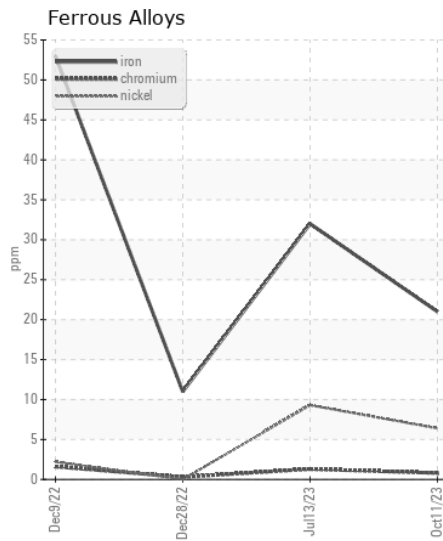
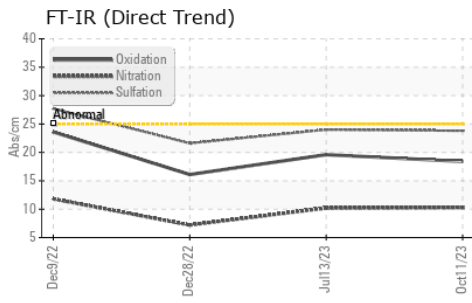
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	9	7	8
Potassium	ppm	ASTM D5185m	>20	3	2	0
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.2	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	24.0	21.6
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	4	3	3
Boron	ppm	ASTM D5185m		136	113	276
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		237	231	237
Manganese	ppm	ASTM D5185m		1	2	<1
Magnesium	ppm	ASTM D5185m		790	852	786
Calcium	ppm	ASTM D5185m		1469	1572	1417
Phosphorus	ppm	ASTM D5185m		910	921	923
Zinc	ppm	ASTM D5185m		1130	1175	998
Sulfur	ppm	ASTM D5185m		2841	3289	3386
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	19.6	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	8.2	10.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042786 **Received** : 13 Oct 2023
Lab Number : 05978050 **Tested** : 13 Oct 2023
Unique Number : 10695345 **Diagnosed** : 16 Oct 2023 - Don Baldrige
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)

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