



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 9 - Marietta [140965]

Machine Id

JOHN DEERE 210G 1FF210GXHKF527616

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		LEC0042002	LEC0028401	LEC0015756
Sample Date		Client Info		17 Jul 2023	23 May 2022	11 Sep 2020
Machine Age	hrs	Client Info		2199	930	406
Oil Age	hrs	Client Info		500	430	406
Filter Age	hrs	Client Info		500	430	0
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	16	34	45
Chromium	ppm	ASTM D5185m	>11	<1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	2	3
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	3	5	7
Lead	ppm	ASTM D5185m	>26	0	2	2
Copper	ppm	ASTM D5185m	>26	<1	▲ 73	▲ 508
Tin	ppm	ASTM D5185m	>4	0	2	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

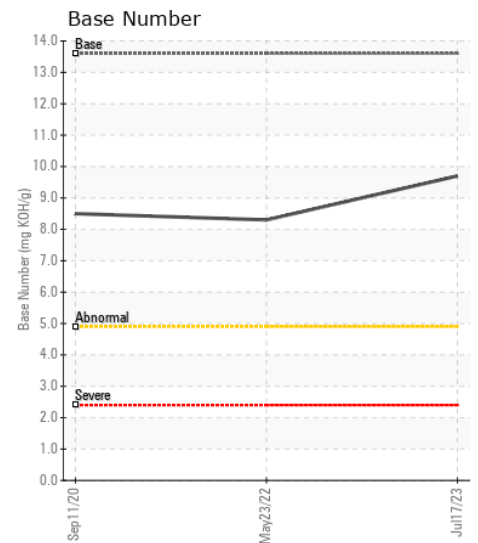
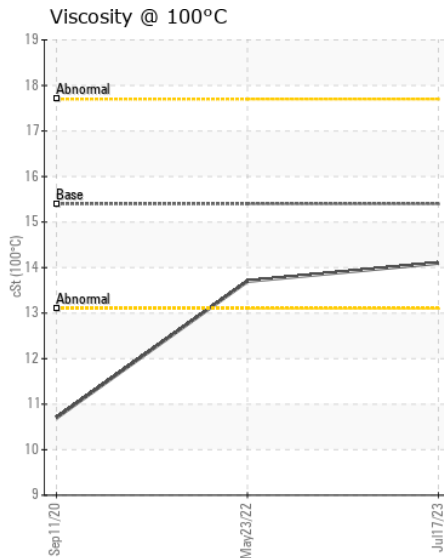
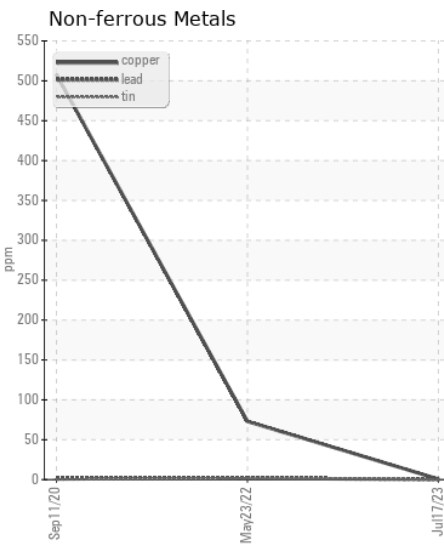
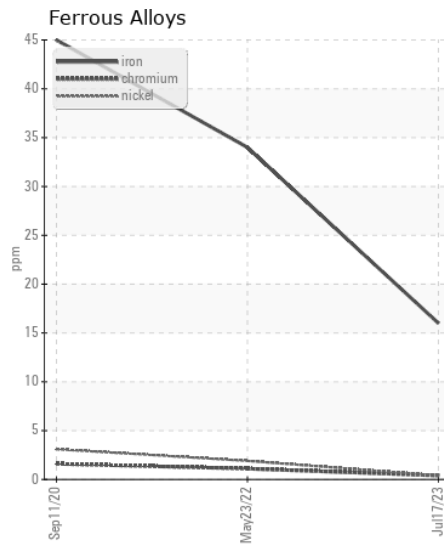
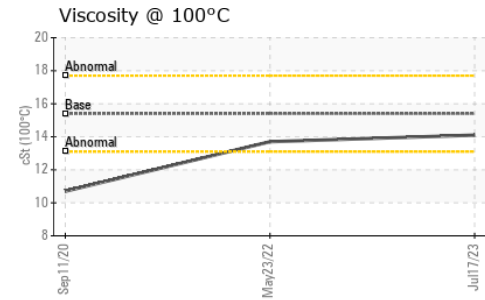
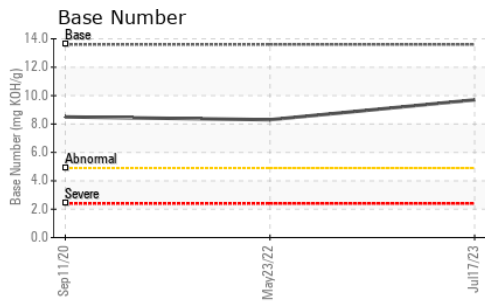
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	7	9	12
Potassium	ppm	ASTM D5185m	>20	1	6	15
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	0.2	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.5	11.1	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	25.9	24.5
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	2	3	7
Boron	ppm	ASTM D5185m		297	155	169
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		254	210	214
Manganese	ppm	ASTM D5185m		<1	1	4
Magnesium	ppm	ASTM D5185m		891	731	867
Calcium	ppm	ASTM D5185m		1526	1600	1550
Phosphorus	ppm	ASTM D5185m		904	808	859
Zinc	ppm	ASTM D5185m		1134	1021	961
Sulfur	ppm	ASTM D5185m		3738	3112	2340
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	21.2	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.7	8.3	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	▲ 10.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042002 **Received** : 20 Jul 2023
Lab Number : 05903131 **Tested** : 20 Jul 2023
Unique Number : 10564487 **Diagnosed** : 21 Jul 2023 - Sean Felton
Test Package : CONST (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
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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)

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