LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G LC EX51 (S/N 1FF210GXKLF528838)
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. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

CONTAMINATION

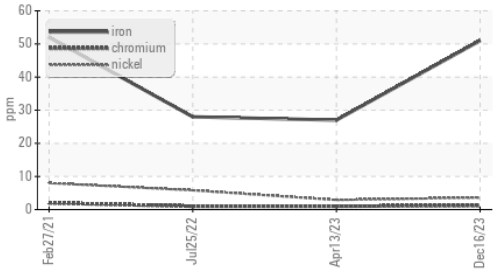
There is no indication of any contamination in the oil.

FLUID CONDITION

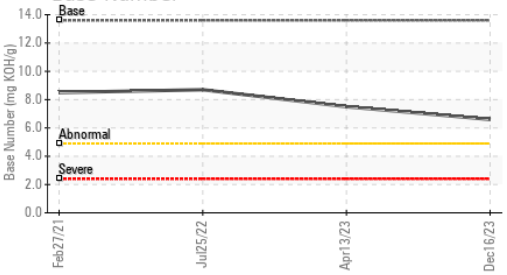
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047703	LEC0040116	LEC0032016
Sample Date		Client Info		16 Dec 2023	13 Apr 2023	25 Jul 2022
Machine Age	hrs	Client Info		3933	3015	500
Oil Age	hrs	Client Info		500	500	0
Filter Age	hrs	Client Info		500	500	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	▲ 51	27	28
Chromium	ppm	ASTM D5185m	>11	1	1	1
Nickel	ppm	ASTM D5185m	>5	4	3	6
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	3	3
Lead	ppm	ASTM D5185m	>26	2	<1	<1
Copper	ppm	ASTM D5185m	>26	4	3	10
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	8	5	5
Potassium	ppm	ASTM D5185m	>20	1	2	<1
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	1.6	0.9	1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.6	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	21.7	23.5
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
Sodium	ppm	ASTM D5185m	>31	4	2	2
Boron	ppm	ASTM D5185m		101	13	34
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		86	67	76
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		408	439	467
Calcium	ppm	ASTM D5185m		1479	1781	1835
Phosphorus	ppm	ASTM D5185m		1095	1062	997
Zinc	ppm	ASTM D5185m		1327	1357	1242
Sulfur	ppm	ASTM D5185m		2892	3750	3575
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	17.6	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.6	7.5	8.7
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	13.4

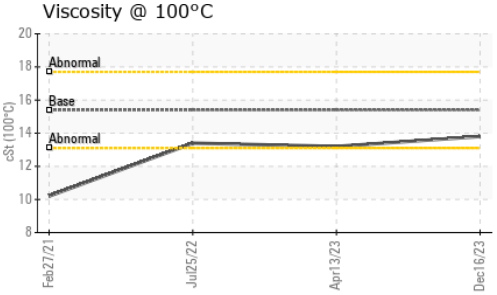
Ferrous Alloys



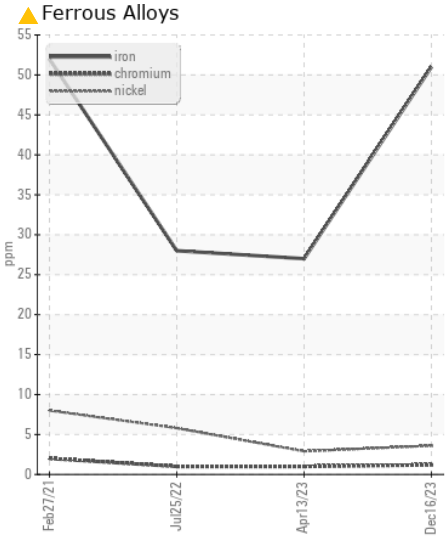
Base Number



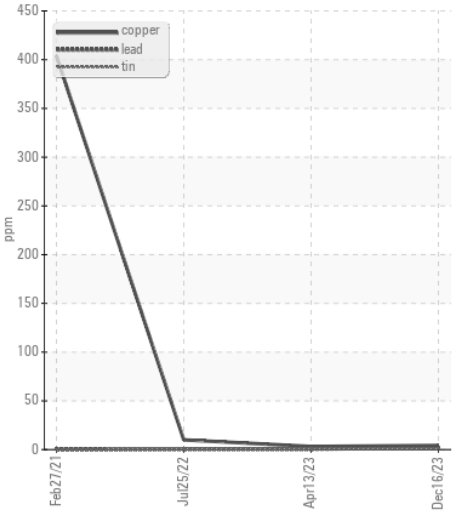
Viscosity @ 100°C



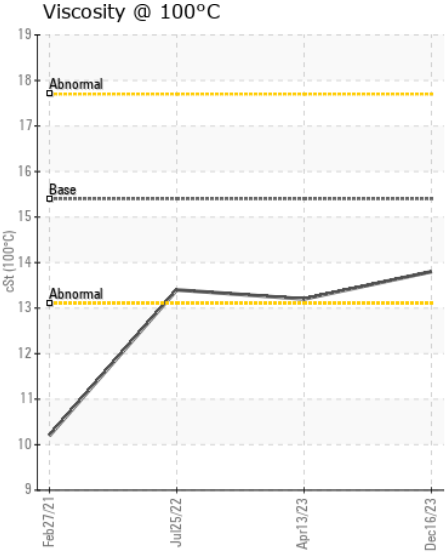
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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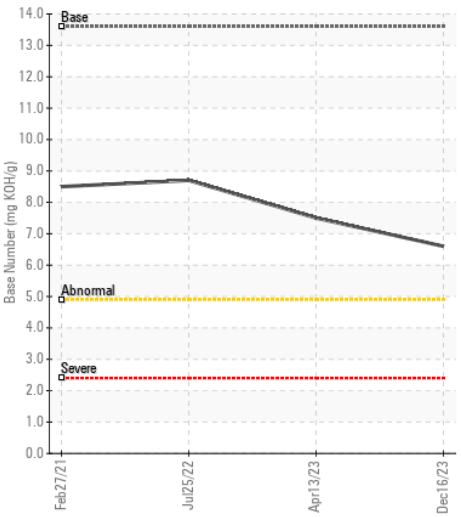

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0047703	**Recieved**	: 17 Jan 2024
Lab Number	: 06063311	**Diagnosed**	: 19 Jan 2024
Unique Number	: 10834693	**Diagnostician**	: Don Baldridge
Test Package	: CONST (Additional Tests: TBN)		

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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US 26330
Contact: SCOTT

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Report Id: LANBRI [WUSCAR] 06063311 (Generated: 01/19/2024 16:13:39) Rev: 1

Submitted By: STORE 9 - MARIETTA - LEANNE KENDALL