LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[RO#145534]
Machine Id
JOHN DEERE 210GLC 1FF210GXTNF529858
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

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

CONTAMINATION

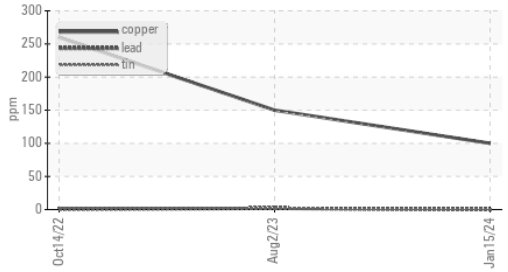
There is no indication of any contamination in the oil.

FLUID CONDITION

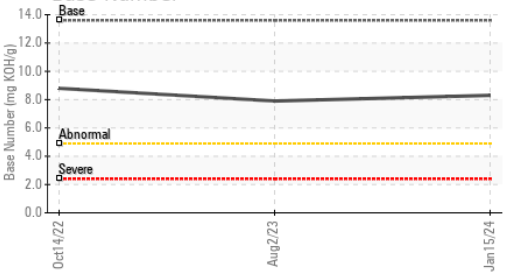
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047032	LEC0043771	LEC0036217
Sample Date		Client Info		15 Jan 2024	02 Aug 2023	14 Oct 2022
Machine Age	hrs	Client Info		1445	915	368
Oil Age	hrs	Client Info		530	547	368
Filter Age	hrs	Client Info		530	547	368
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	33	43	34
Chromium	ppm	ASTM D5185m	>11	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	7	22	8
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	5	5	5
Lead	ppm	ASTM D5185m	>26	0	2	<1
Copper	ppm	ASTM D5185m	>26	▲ 100	▲ 150	▲ 260
Tin	ppm	ASTM D5185m	>4	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	14	9	10
Potassium	ppm	ASTM D5185m	>20	4	4	6
Fuel		WC Method	>2.1	<1.0	<1.0	0.5
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.7	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	24.9	25.2
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	2	6	4
Boron	ppm	ASTM D5185m		182	138	181
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		279	254	203
Manganese	ppm	ASTM D5185m		<1	2	4
Magnesium	ppm	ASTM D5185m		1008	832	598
Calcium	ppm	ASTM D5185m		1769	1650	1646
Phosphorus	ppm	ASTM D5185m		1118	876	865
Zinc	ppm	ASTM D5185m		1385	1131	1056
Sulfur	ppm	ASTM D5185m		3979	3233	3115
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	19.9	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	7.9	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.3	▲ 10.5

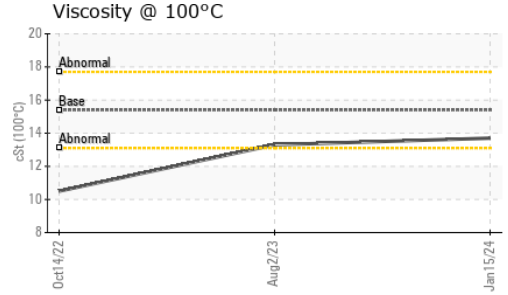
Non-ferrous Metals



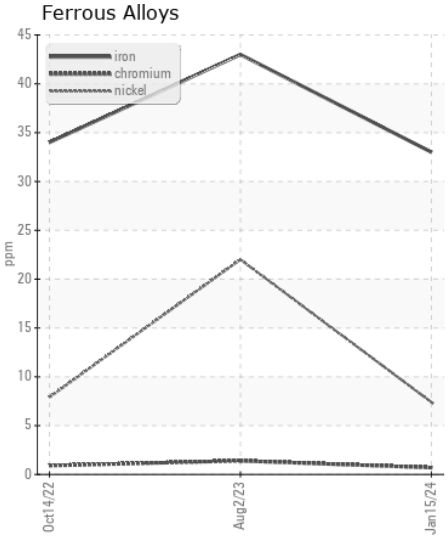
Base Number



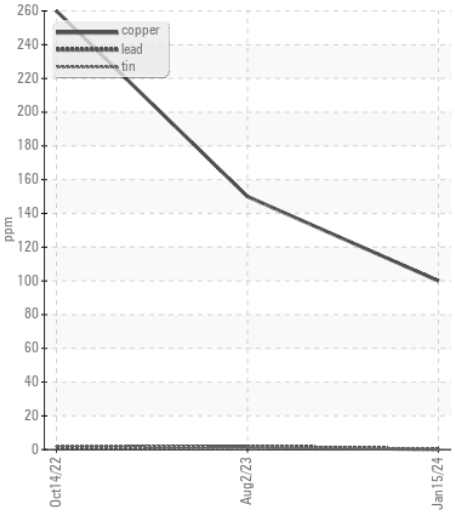
Viscosity @ 100°C



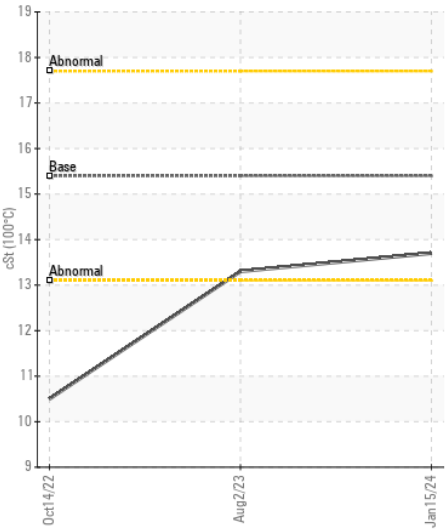
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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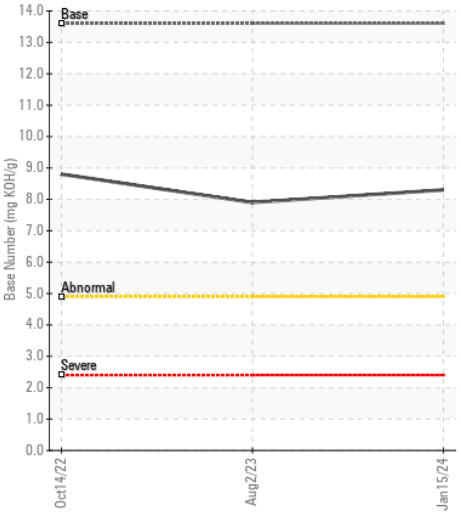

Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0047032	**Recieved**	: 18 Jan 2024
Lab Number	: 06064015	**Diagnosed**	: 20 Jan 2024
Unique Number	: 10835397	**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)

LESLIE EQUIPMENT COMPANY
105 TENNIS CENTER DR.
MARIETTA, OH
US 45750-9765
Contact: LEANNE KENDALL
KendalLeanne@lec1.com
T:
F: (740)373-5570