LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen
Machine Id
JOHN DEERE 210G 1FF210GXTKF527720
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

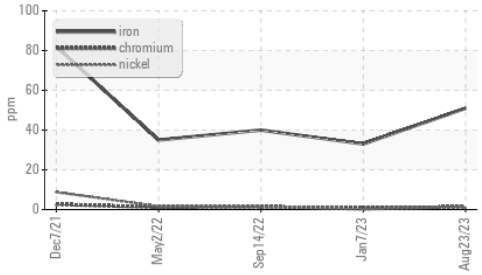
There is no indication of any contamination in the oil.

FLUID CONDITION

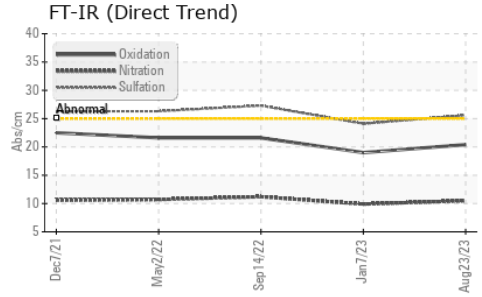
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043532	LEC0036987	LEC0030175
Sample Date		Client Info		23 Aug 2023	07 Jan 2023	14 Sep 2022
Machine Age	hrs	Client Info		0	2176	1691
Oil Age	hrs	Client Info		0	485	565
Filter Age	hrs	Client Info		0	485	565
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	▲ 51	33	40
Chromium	ppm	ASTM D5185m	>11	1	<1	1
Nickel	ppm	ASTM D5185m	>5	1	0	2
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	3	6
Lead	ppm	ASTM D5185m	>26	<1	<1	<1
Copper	ppm	ASTM D5185m	>26	5	8	18
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	10	9	9
Potassium	ppm	ASTM D5185m	>20	2	3	36
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	0.9	0.7	1
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9.9	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.6	24.1	27.3
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
Sodium	ppm	ASTM D5185m	>31	4	3	20
Boron	ppm	ASTM D5185m		76	177	139
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		285	293	298
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		940	923	849
Calcium	ppm	ASTM D5185m		1602	1645	1583
Phosphorus	ppm	ASTM D5185m		984	972	961
Zinc	ppm	ASTM D5185m		1236	1202	1201
Sulfur	ppm	ASTM D5185m		3631	3008	2904
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	19.0	21.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.5	8.6	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	14.5	14.4

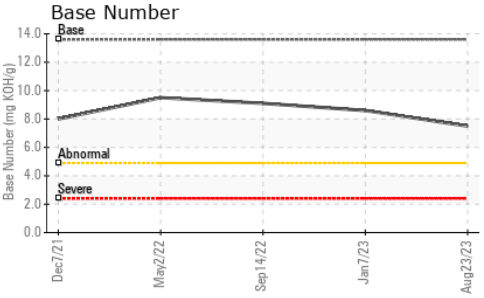
Ferrous Alloys



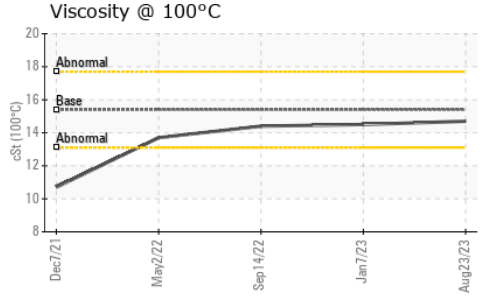
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C



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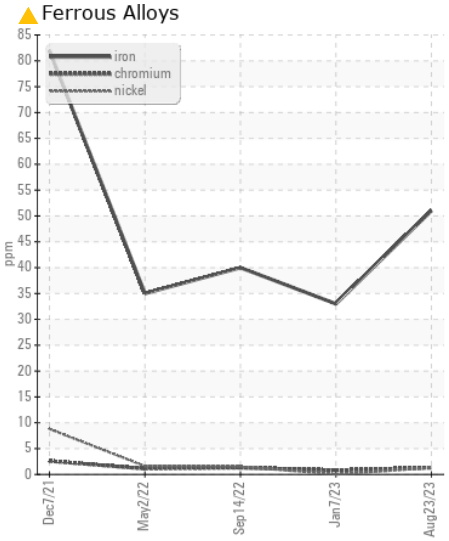
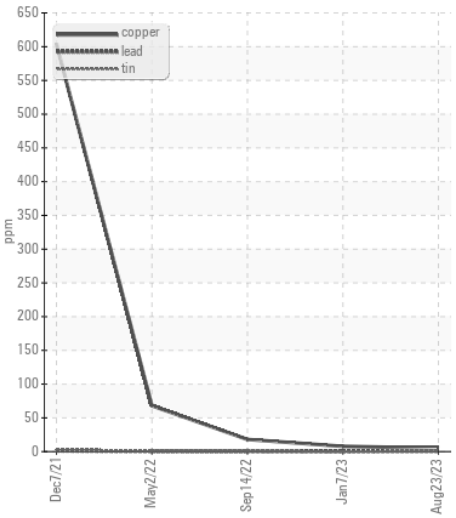
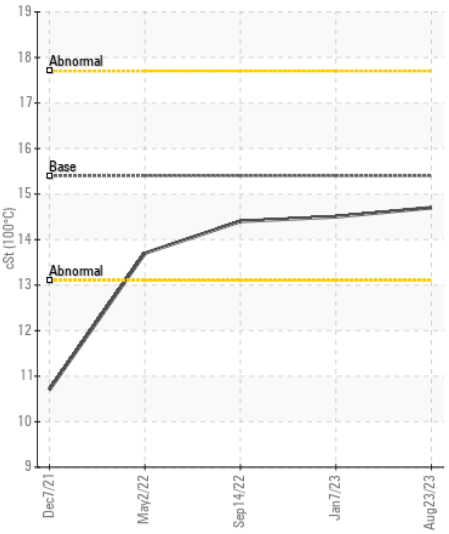


Non-ferrous Metals



Viscosity @ 100°C



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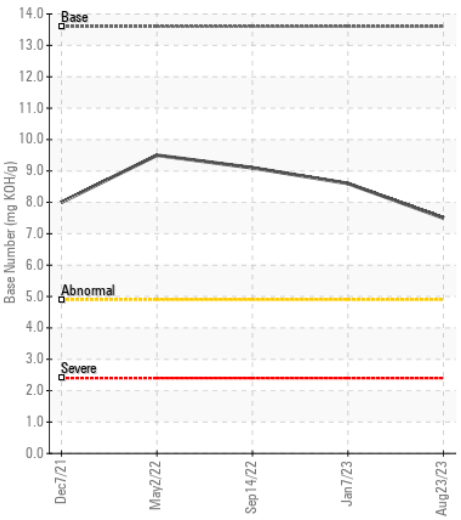

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043532 **Received** : 30 Aug 2023
Lab Number : 05938152 **Tested** : 30 Aug 2023
Unique Number : 10628764 **Diagnosed** : 31 Aug 2023 - 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