LESLIE EQUIPMENT CO.

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta [ro#123255]
Machine Id
JOHN DEERE 260E 1DW260ETEJF691847
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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

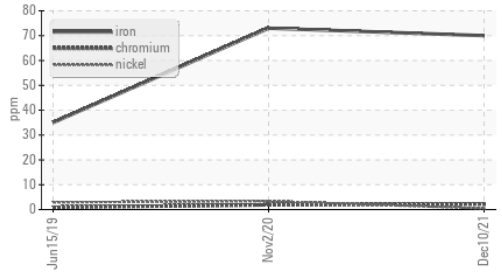
There is no indication of any contamination in the oil.

FLUID CONDITION

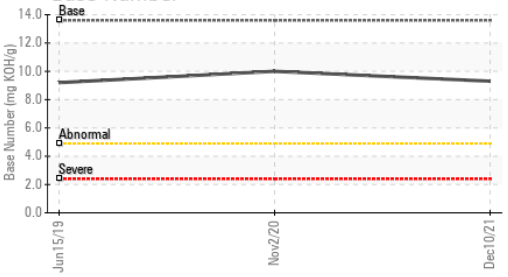
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0026684	LEC0016300	LEC0000892
Sample Date		Client Info		10 Dec 2021	02 Nov 2020	15 Jun 2019
Machine Age	hrs	Client Info		1442	827	408
Oil Age	hrs	Client Info		615	419	408
Filter Age	hrs	Client Info		615	419	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	▲ 70	73	35
Chromium	ppm	ASTM D5185m	>11	2	2	<1
Nickel	ppm	ASTM D5185m	>5	<1	3	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>31	5	7	7
Lead	ppm	ASTM D5185m	>26	<1	0	1
Copper	ppm	ASTM D5185m	>26	3	6	23
Tin	ppm	ASTM D5185m	>4	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	7	9	8
Potassium	ppm	ASTM D5185m	>20	0	15	23
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	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	7.7	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	21.6	21
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	3	8
Boron	ppm	ASTM D5185m		240	237	211
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		262	261	230
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		854	891	798
Calcium	ppm	ASTM D5185m		1466	1502	1389
Phosphorus	ppm	ASTM D5185m		868	950	866
Zinc	ppm	ASTM D5185m		1000	1050	994
Sulfur	ppm	ASTM D5185m		2576	2690	2476
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.2	16
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.3	10	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.9	9.95

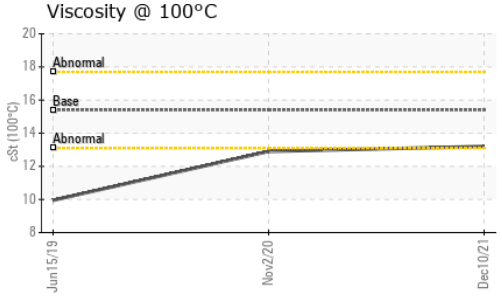
Ferrous Alloys



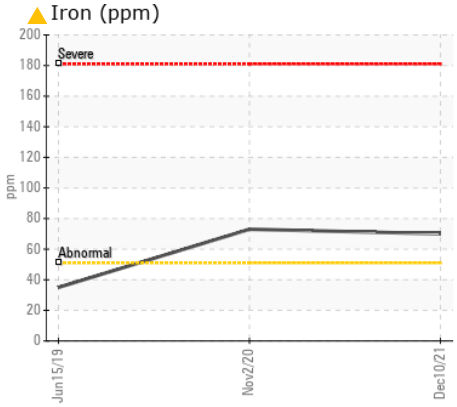
Base Number



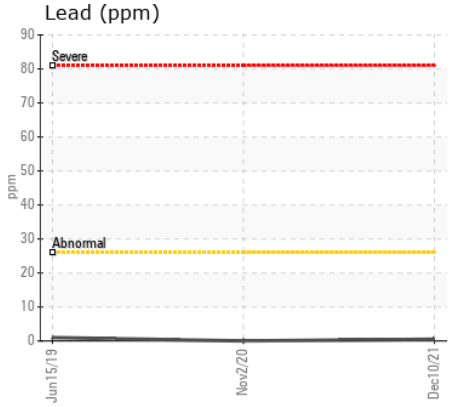
Viscosity @ 100°C



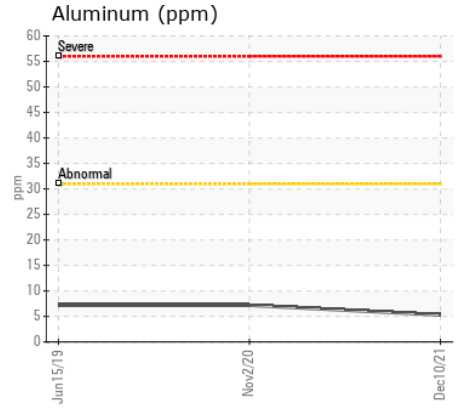
Iron (ppm)



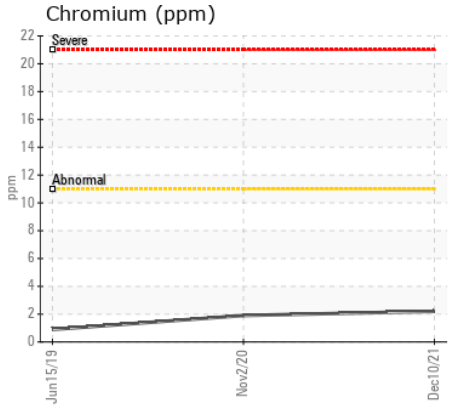
Lead (ppm)



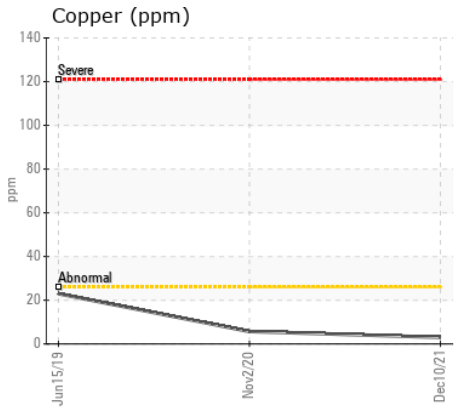
Aluminum (ppm)



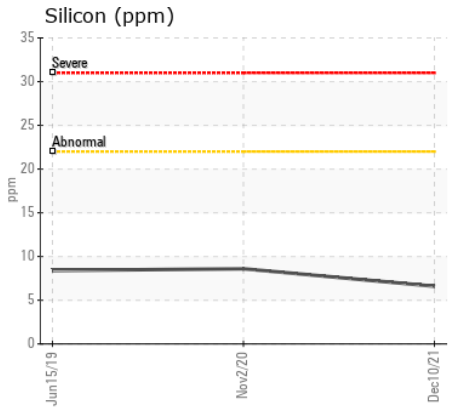
Chromium (ppm)



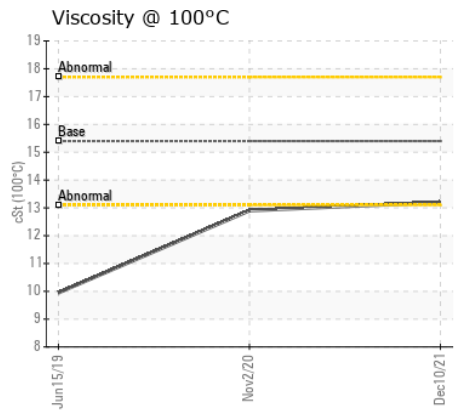
Copper (ppm)



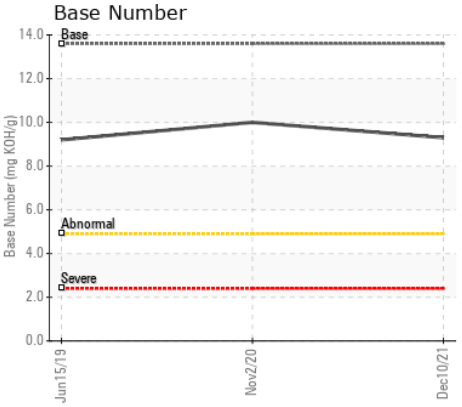
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: LEC0026684	**Recieved**	: 15 Dec 2021
Lab Number	: 05423580	**Diagnosed**	: 16 Dec 2021
Unique Number	: 9777771	**Diagnostician**	: Don Baldridge
Test Package	: MOBCE (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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