



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

Store 4 - Fairmont [99443]

Machine Id

JLG G12-55A 0160058541

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0007106	LECP152574	LECP154334
Sample Date		Client Info		09 Jan 2020	27 Aug 2015	13 Apr 2015
Machine Age	hrs	Client Info		2427	1623	1236
Oil Age	hrs	Client Info		804	387	1236
Filter Age	hrs	Client Info		804	387	1236
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	35	31
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>3	<1	16	16
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	4
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	16	▲ 488	▲ 504
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

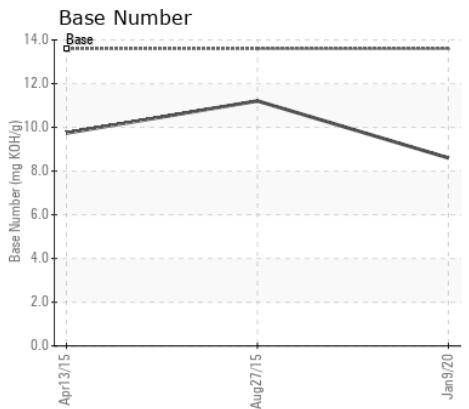
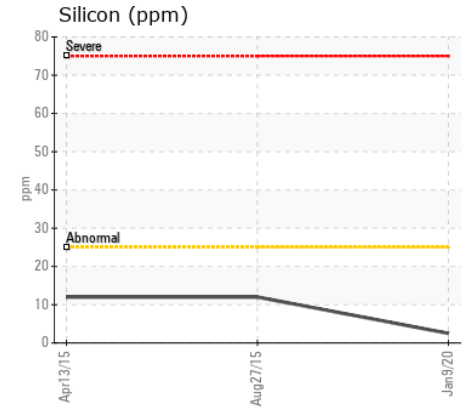
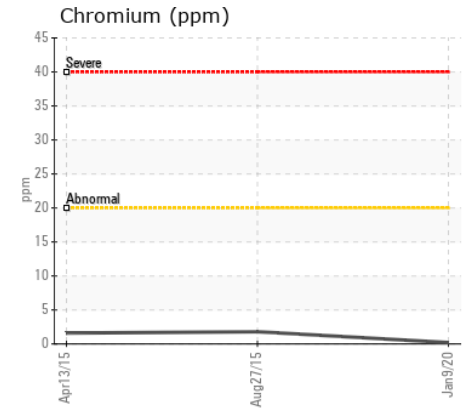
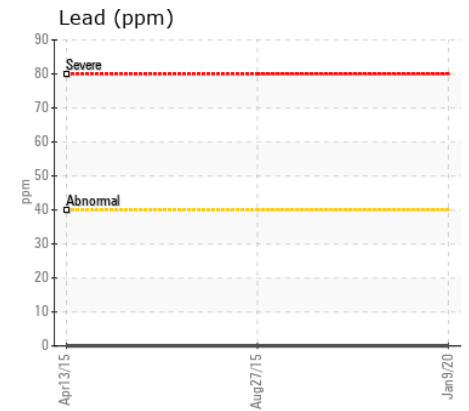
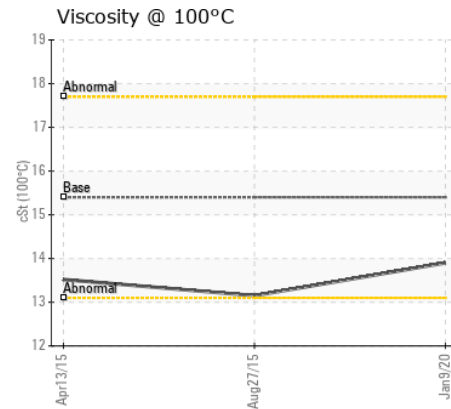
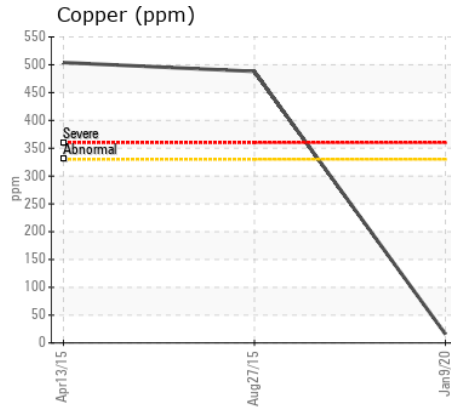
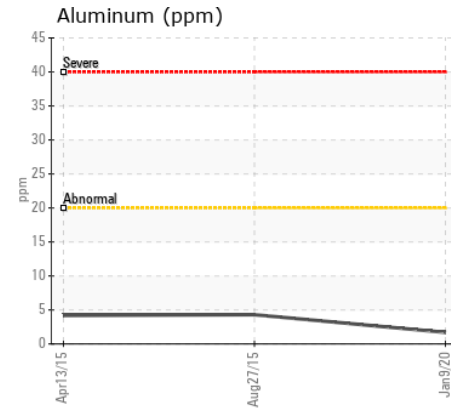
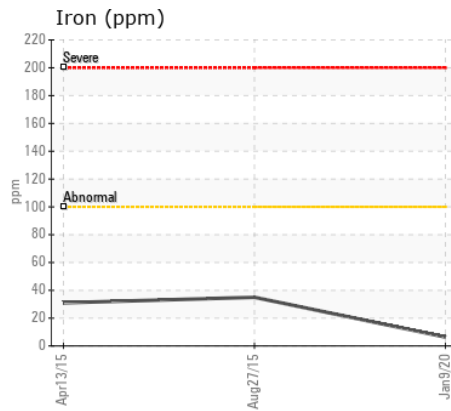
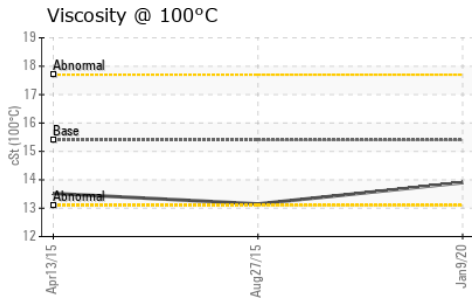
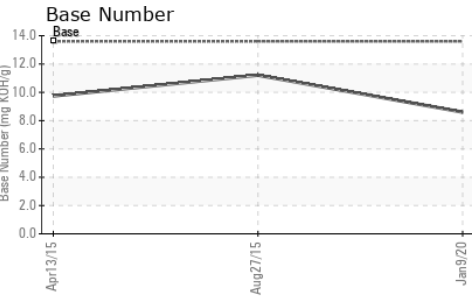
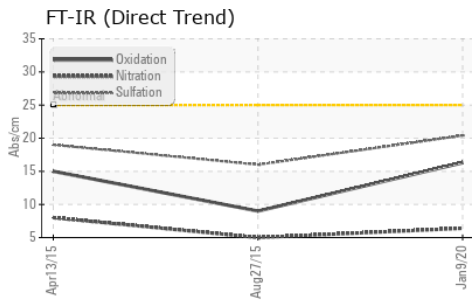
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	2	12	12
Potassium	ppm	ASTM D5185m	>20	6	0	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	6.4	5.	8.
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	16.	19.
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	>0.2	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		2	10	9
Boron	ppm	ASTM D5185m		191	6	9
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		16	28	29
Manganese	ppm	ASTM D5185m		<1	3	3
Magnesium	ppm	ASTM D5185m		138	638	691
Calcium	ppm	ASTM D5185m		1869	1496	1666
Phosphorus	ppm	ASTM D5185m		897	810	1028
Zinc	ppm	ASTM D5185m		981	1182	1214
Sulfur	ppm	ASTM D5185m		3704	2665	4359
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	9.	15.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	11.21	9.74
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.15	13.52



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0007106 **Received** : 16 Jan 2020  
**Lab Number** : 04889870 **Tested** : 17 Jan 2020  
**Unique Number** : 8889930 **Diagnosed** : 17 Jan 2020 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: TBN )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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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