



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton

Machine Id
JOHN DEERE 331G 1T0331GMEHF316759

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041575	LEC0039456	LEC0021500
Sample Date		Client Info		18 Jun 2024	24 Mar 2023	11 Aug 2021
Machine Age	hrs	Client Info		2641	2257	1766
Oil Age	hrs	Client Info		384	491	418
Filter Age	hrs	Client Info		384	491	418
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	39	50	20
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	6	<1
Lead	ppm	ASTM D5185m	>26	0	<1	<1
Copper	ppm	ASTM D5185m	>26	3	5	5
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

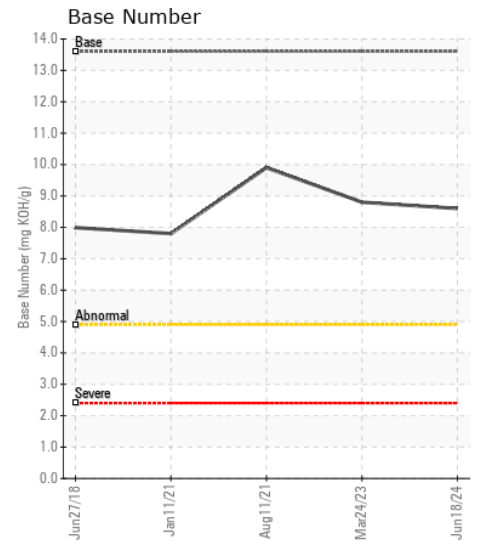
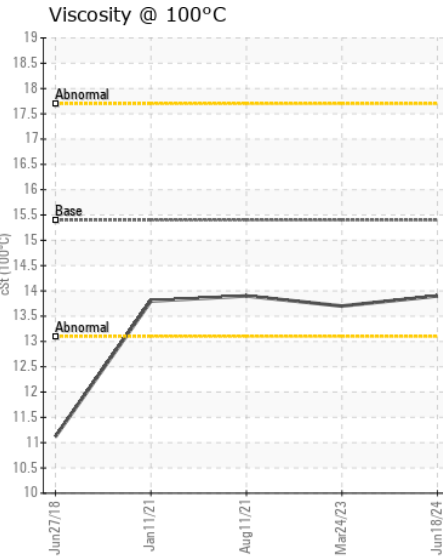
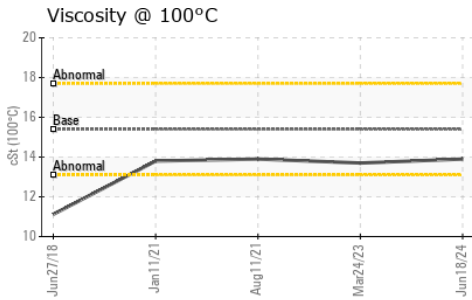
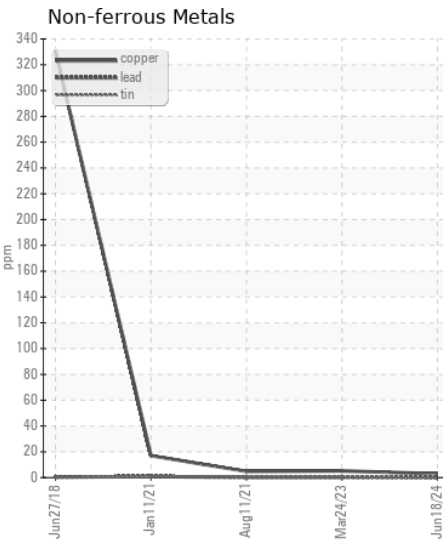
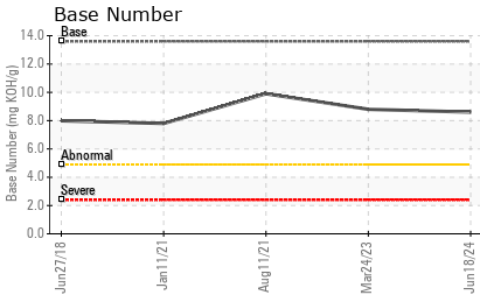
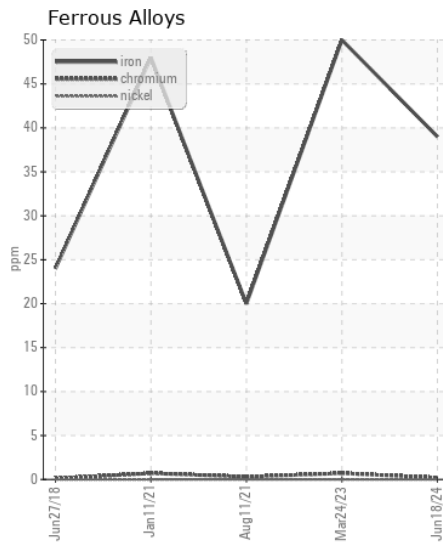
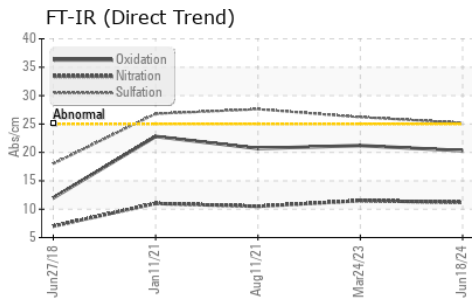
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	14	17	10
Potassium	ppm	ASTM D5185m	>20	<1	2	2
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	0.6	0.5	0
Nitration	Abs/cm	*ASTM D7624	>20	11.2	11.5	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	26.2	27.6
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

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	>31	2	6	2
Boron	ppm	ASTM D5185m		163	193	297
Barium	ppm	ASTM D5185m		<1	3	<1
Molybdenum	ppm	ASTM D5185m		248	254	282
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		836	825	864
Calcium	ppm	ASTM D5185m		1537	1482	1517
Phosphorus	ppm	ASTM D5185m		922	887	913
Zinc	ppm	ASTM D5185m		1125	1083	1119
Sulfur	ppm	ASTM D5185m		3392	3034	2610
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	21.2	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	8.8	9.9
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041575 **Received** : 24 Jun 2024
Lab Number : 06218016 **Tested** : 25 Jun 2024
Unique Number : 11096213 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : CONST (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)

T: (740)373-5570