



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 5 - Cross Lanes [RO#144502]
Machine Id
JOHN DEERE 1050K 1T01050PAHF323007
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043577	LEC0041532	LECP187464
Sample Date		Client Info		23 Oct 2023	20 Jun 2023	29 Nov 2018
Machine Age	hrs	Client Info		1347	965	947
Oil Age	hrs	Client Info		382	256	238
Filter Age	hrs	Client Info		382	256	238
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>37	15	12	6
Chromium	ppm	ASTM D5185m	>11	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	4	1	4
Lead	ppm	ASTM D5185m	>26	<1	5	2
Copper	ppm	ASTM D5185m	>26	23	▲ 189	27
Tin	ppm	ASTM D5185m	>4	2	4	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

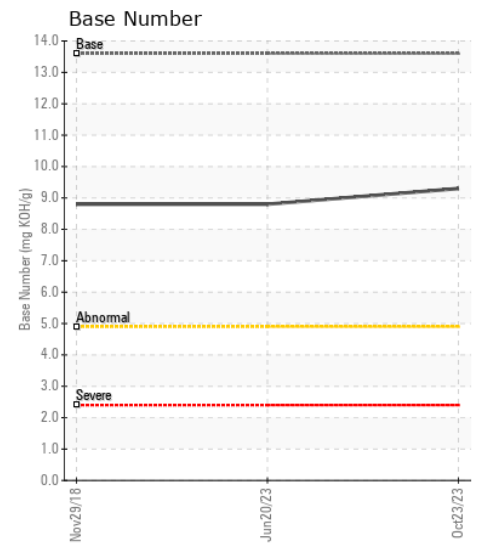
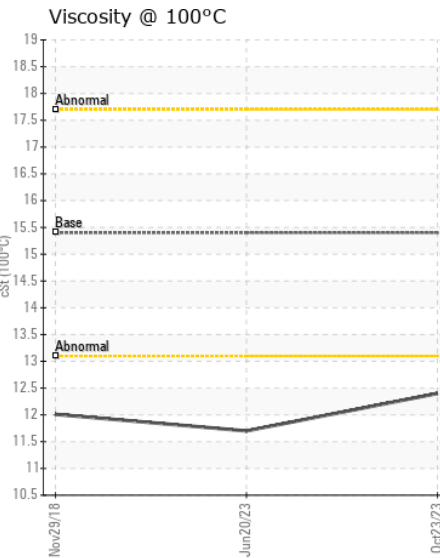
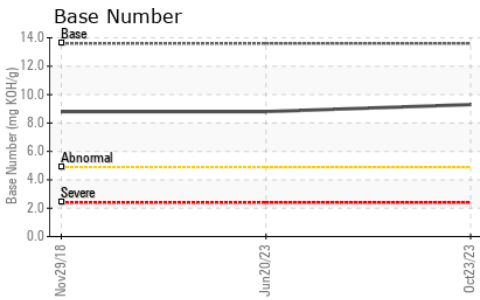
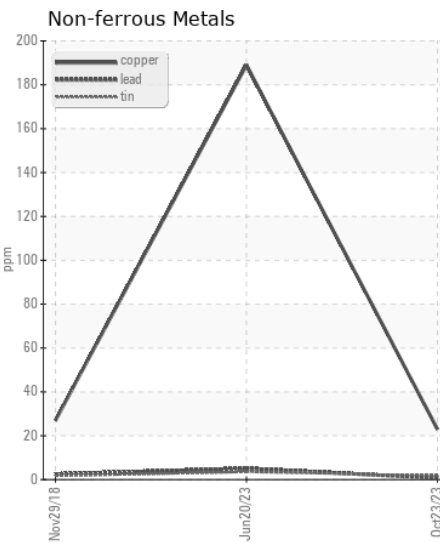
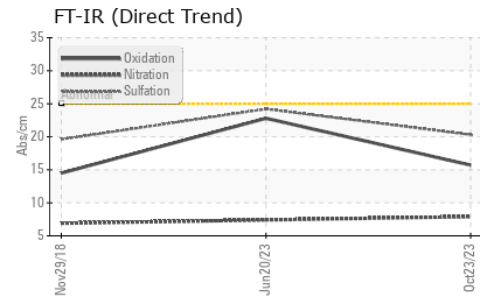
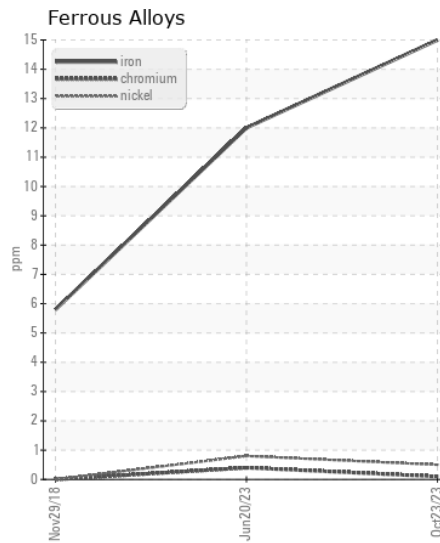
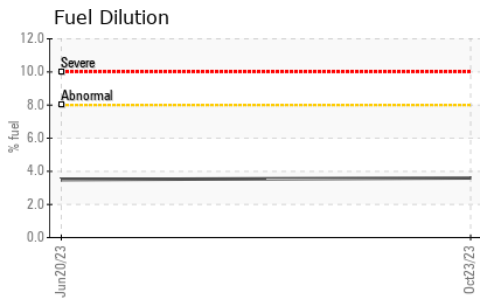
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	9	12	4
Potassium	ppm	ASTM D5185m	>20	0	3	1
Fuel	%	ASTM D3524	>8.0	3.6	▲ 3.5	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.4	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	24.2	19.6
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	5	6	7
Boron	ppm	ASTM D5185m		211	271	168
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		205	234	161
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		755	848	606
Calcium	ppm	ASTM D5185m		1341	1467	1258
Phosphorus	ppm	ASTM D5185m		762	893	761
Zinc	ppm	ASTM D5185m		1068	1177	837
Sulfur	ppm	ASTM D5185m		2968	4010	3096
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	22.8	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.3	8.8	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	▲ 11.7	12.01



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043577 **Received** : 25 Oct 2023
Lab Number : 05989021 **Tested** : 27 Oct 2023
Unique Number : 10711683 **Diagnosed** : 27 Oct 2023 - Doug Bogart
Test Package : CONST (Additional Tests: PercentFuel, 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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