



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 350G 1FF350GXCF812424
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042707	LEC0047297	LEC0037743
Sample Date		Client Info		24 Jan 2024	12 Jan 2024	15 Feb 2023
Machine Age	hrs	Client Info		4386	4343	3753
Oil Age	hrs	Client Info		43	590	602
Filter Age	hrs	Client Info		43	590	602
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

The nickel level has decreased, but is still abnormal.

Iron	ppm	ASTM D5185m	>51	49	220	81
Chromium	ppm	ASTM D5185m	>11	3	18	2
Nickel	ppm	ASTM D5185m	>5	11	64	4
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	13	51	7
Lead	ppm	ASTM D5185m	>26	<1	2	1
Copper	ppm	ASTM D5185m	>26	<1	6	3
Tin	ppm	ASTM D5185m	>4	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

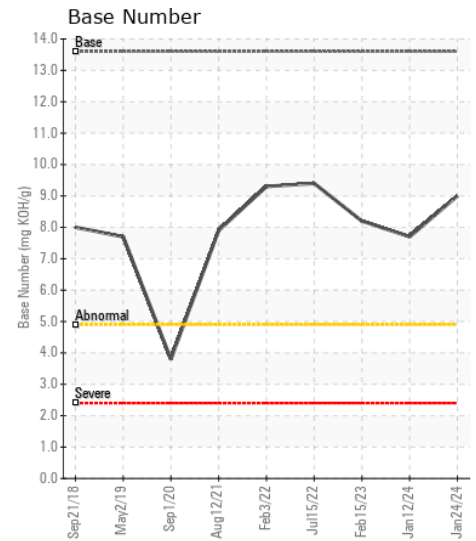
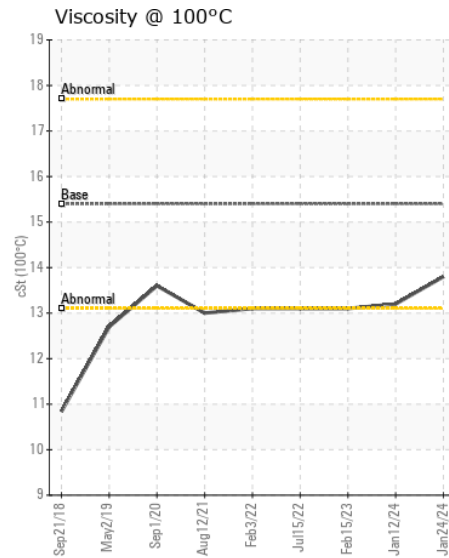
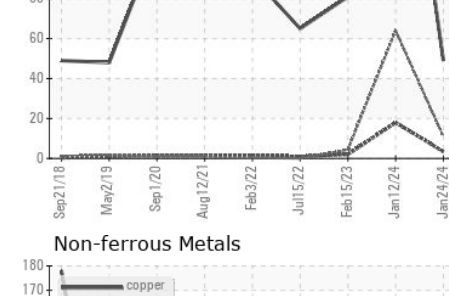
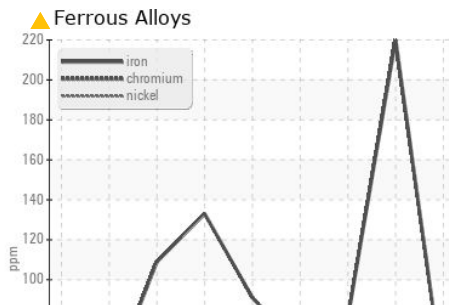
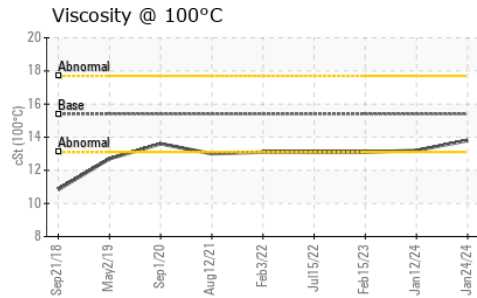
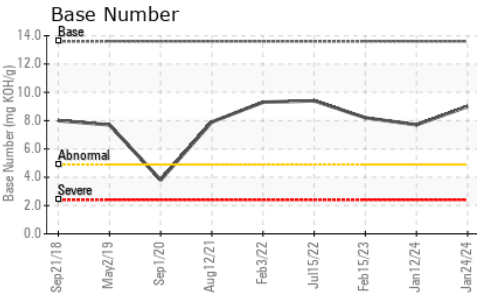
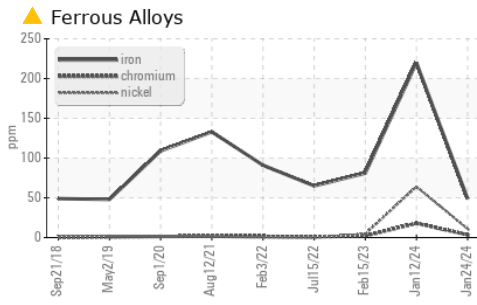
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	8	12	8
Potassium	ppm	ASTM D5185m	>20	1	5	5
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	0.1	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.4	8.7	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	22.9	22.2
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	1	0	3
Boron	ppm	ASTM D5185m		261	143	169
Barium	ppm	ASTM D5185m		0	4	0
Molybdenum	ppm	ASTM D5185m		240	260	251
Manganese	ppm	ASTM D5185m		1	4	1
Magnesium	ppm	ASTM D5185m		803	880	815
Calcium	ppm	ASTM D5185m		1335	1437	1513
Phosphorus	ppm	ASTM D5185m		859	893	841
Zinc	ppm	ASTM D5185m		1048	1115	1057
Sulfur	ppm	ASTM D5185m		2897	3340	3439
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.9	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	7.7	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.2	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042707 **Received** : 30 Jan 2024
Lab Number : 06074332 **Tested** : 31 Jan 2024
Unique Number : 10856423 **Diagnosed** : 01 Feb 2024 - Jonathan Hester
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)

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