**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

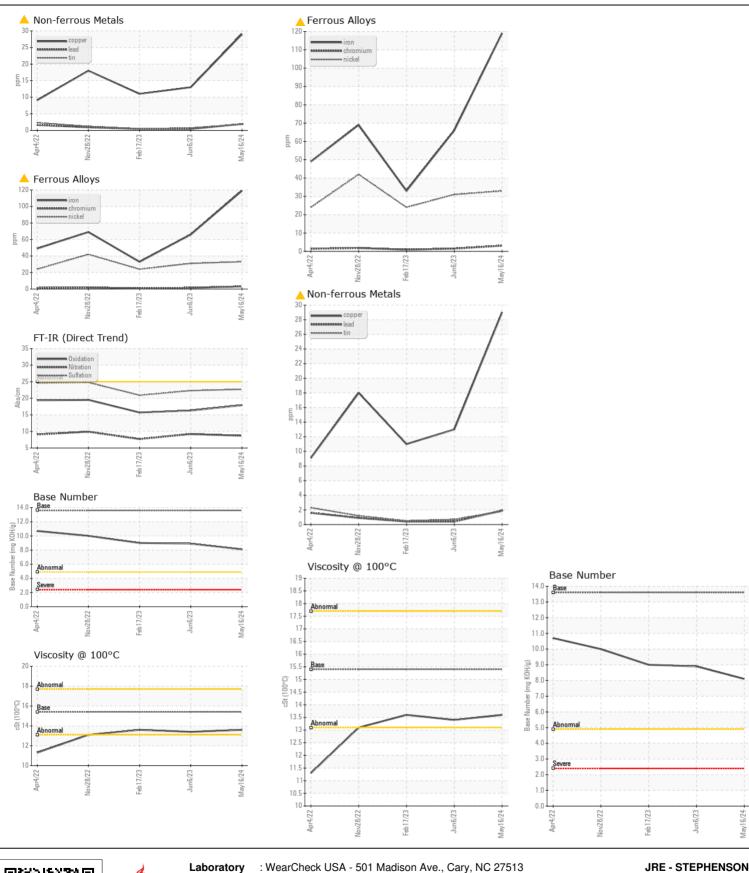
## [ILA PROPERTIES]

## **JOHN DEERE 350G 1FF350GXEMF815195**

Component

Diesel Fngine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0195367	JR0174434	JR0162950
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		16 May 2024	06 Jun 2023	17 Feb 2023
	Machine Age	hrs	Client Info		1997	1435	1231
	Oil Age	hrs	Client Info		0	1224	211
	Filter Age	hrs	Client Info		0	0	211
	Oil Changed		Client Info		Changed	N/A	Not Change
	Filter Changed		Client Info		Changed	N/A	Not Change
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>51	<u> </u>	66	33
	Chromium	ppm	ASTM D5185m		3	2	<1
Valve wear is indicated. Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		<b>▲</b> 33	_ ▲ 31	<u>^</u> 24
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	8	2	3
	Lead	ppm	ASTM D5185m	>26	2	<1	<1
	Copper	ppm	ASTM D5185m	>26	<b>4</b> 29	13	11
	Tin	ppm	ASTM D5185m	>4	2	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11	10	6
SONTAMINATION	Potassium	ppm	ASTM D5185m		4	2	2
There is no indication of any contamination in the oil.	Fuel	ррпп			<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.2	7.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.3	20.9
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	2	2
	Boron	ppm	ASTM D5185m		164	207	237
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		269	243	238
	Manganese	ppm	ASTM D5185m		2	2	<1
	Magnesium	ppm	ASTM D5185m		839	888	805
	Calcium	ppm	ASTM D5185m		1473	1477	1411
	Phosphorus	ppm	ASTM D5185m		925	909	842
	Zinc	ppm	ASTM D5185m		1089	1128	1033
	Sulfur	ppm	ASTM D5185m		3238	3631	3529
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.3	15.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	8.9	9.0
	Visc @ 100°C	cSt	ASTM D445		13.6	13.4	13.6







Certificate L2367

Laboratory Sample No.

: JR0195367 Lab Number : 06185947

**Tested** Unique Number : 11042699 Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 21 May 2024 : 22 May 2024

: 23 May 2024 - Angela Borella

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY pdaugherty@jamesriverequipment.com T: x:

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)

F: (540)693-2588

Submitted By: TOM DAVIS