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

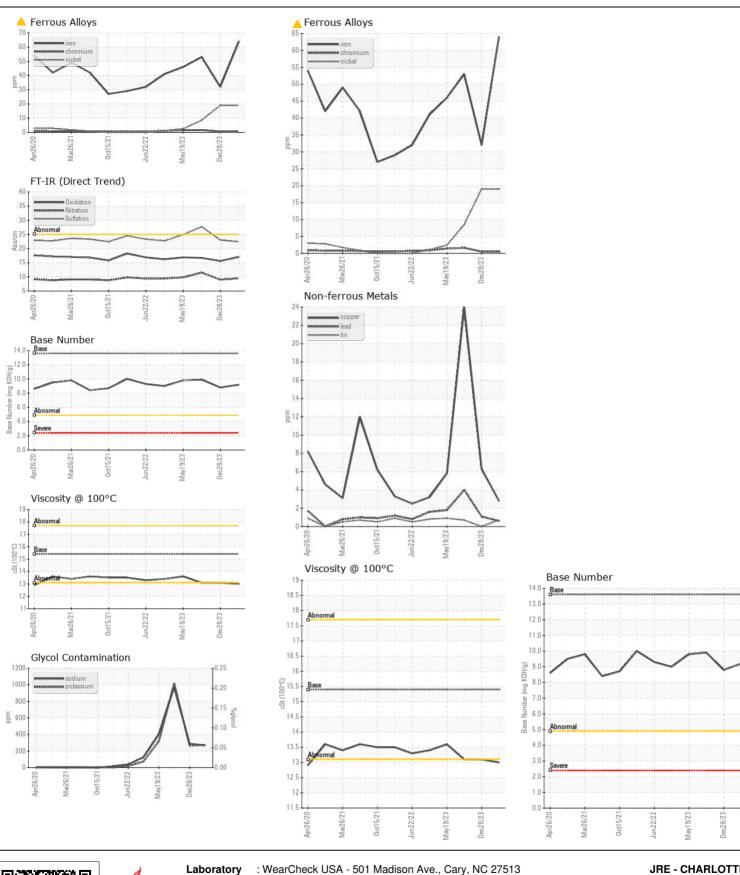


[W67131]

## **JOHN DEERE 350G 1FF350GXCKF813557**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been	Sample Number		Client Info	2	JR0215666	JR0198631	JR0188254
	Sample Date		Client Info		29 May 2024	28 Dec 2023	22 Sep 2023
	Machine Age	hrs	Client Info		7003	6521	6116
noted. We recommend an early resample to monitor this condition. (	Oil Age	hrs	Client Info		6598	405	623
Customer Sample Comment: W67131 )	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	Ü	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	64	32	53
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	2
Valve wear is indicated.	Nickel	ppm	ASTM D5185m		<b>1</b> 9	<u> 19</u>	8
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	5	5
	Lead	ppm		>26	- <1	1	4
	Copper	ppm	ASTM D5185m		3	6	24
	Tin	ppm	ASTM D5185m		<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	Silicon	ppm	ASTM D5185m	>22	16	17	<b>2</b> 9
	Potassium	ppm	ASTM D5185m	>20	<u>^</u> 271	<u>^</u> 265	<b>1</b> 016
Sodium and/or potassium levels are high.	Fuel			>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.0	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	23.0	27.7
	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	Sodium	ppm	ASTM D5185m	>31	<b>269</b>	<u> </u>	<b>△</b> 971
The DN recult indicates that there is quitable all alimits remaining in the	Boron	ppm	ASTM D5185m		107	106	20
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		250	276	329
	Manganese	ppm	ASTM D5185m		2	<1	2
	Magnesium	ppm	ASTM D5185m		832	856	828
	Calcium	ppm	ASTM D5185m		1452	1444	1453
	Phosphorus	ppm	ASTM D5185m		938	866	755
	Zinc	ppm	ASTM D5185m		1123	1099	1102
	Sulfur	ppm	ASTM D5185m		3524	3075	3365
	Oxidation	Abs/.1mm	*ASTM D7414		17.0	15.6	16.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2	8.8	9.9
	Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.1	13.1







Certificate L2367

Laboratory Sample No. Lab Number

: JR0215666 : 06195288 Unique Number : 11057411

Received **Tested** Diagnosed

: 30 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Jonathan Hester Test Package : CONST (Additional Tests: Glycol, KV40, PQ, TBN)

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.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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