

Machine Id JOHN DEERE 350G 1FF350GXJFF810816 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

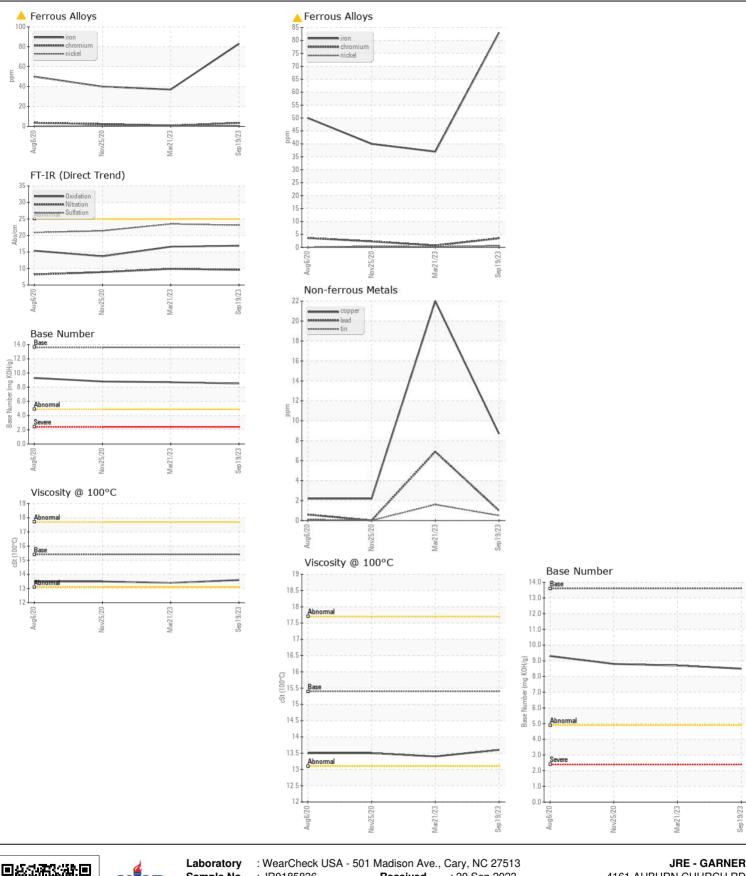
	Toot		Motherd	Ling#/Ala	Cummeret	Listored	Lister C
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info Client Info		JR0185836 19 Sep 2023	JR0163261 21 Mar 2023	JR007074
	Machine Age	hrs	Client Info		19 Sep 2023 8029	7449	25 NOV 202 5500
	Oil Age	hrs	Client Info		580	500	0
	Filter Age	hrs	Client Info		580	500	0
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	A 83	37	40
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m	>11	4	<1	2
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		8	3	4
	Lead	ppm	ASTM D5185m		1	7	0
	Copper	ppm	ASTM D5185m		9	22	2
	Tin	ppm	ASTM D5185m	>4	<1	2	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12	9	5
	Potassium	ppm	ASTM D5185m	>20	24	<1	14
There is no indication of any contamination in the oil.	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	0.5	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	9.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	23.5	21.4
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	3	6
	Boron	ppm	ASTM D5185m		123	214	46
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		256	225	50
	Manganese	ppm	ASTM D5185m		2	5	<1
	Magnesium	ppm	ASTM D5185m		876	724	732
	Calcium	ppm	ASTM D5185m		1552	1362	1450
	Phosphorus	ppm	ASTM D5185m		857	745	978
	Zinc	ppm	ASTM D5185m		1104	926	1127
	Sulfur	ppm	ASTM D5185m		3295	2893	2843
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	16.6	13.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.7	8.8
	N" 0 100-0	01	AOTH DUT			10.1	10 F

Visc @ 100°C cSt ASTM D445 15.4

13.4

13.5

13.6



JRE - GARNER Sample No. : JR0185836 Received 4161 AUBURN CHURCH RD : 20 Sep 2023 Lab Number : 05956329 Tested GARNER, NC : 26 Sep 2023 Unique Number : 10657542 Diagnosed : 27 Sep 2023 - Jonathan Hester US 27529 Test Package : CONST (Additional Tests: TBN) Contact: RALEIGH SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260 F: (919)779-5432 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)