

Area

## [W7577] JOHN DEERE 250G 1FF250GXJJF610863 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter abange at the time of compliant has been noted. We	Sample Number		Client Info		JR0141043	JR0095792	JR006570
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. ( Customer Sample Comment: W7577 )	Sample Date		Client Info		17 Jul 2023	16 Sep 2021	30 Nov 202
	Machine Age	hrs	Client Info		4502	2212	1478
	Oil Age	hrs	Client Info		500	500	0
	Filter Age	hrs	Client Info		500	500	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	<b>4</b> 96	40	17
	Chromium	ppm	ASTM D5185m	>11	3	1	<1
Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>5	3	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>31	11	4	6
	Lead	ppm	ASTM D5185m		8	<1	0
	Copper	ppm	ASTM D5185m	>26	8	19	11
	Tin	ppm	ASTM D5185m		2	1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>\</u> 22	13	9	6
	Potassium	ppm	ASTM D5185m		16	2	6
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	2.2	0.9	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	14.0	11.4	8.3
	Sulfation	Abs/.1mm	*ASTM D7415		33.9	26.2	22.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m	<u>_</u> 21	14	1	3
	Boron	ppm	ASTM D5185m	201	22	108	213
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		256	281	229
	Manganese	ppm	ASTM D5185m		250	<1	<1
	Magnesium		ASTM D5185m		2 970	866	804
	Calcium	ppm	ASTM D5185m ASTM D5185m		970 2010	1609	1423
		ppm	ASTM D5185m ASTM D5185m				
	Phosphorus	ppm			1195	884	854
	Zinc Sulfur	ppm	ASTM D5185m		1475	1119	985
		ppm	ASTM D5185m	05	3948	2400	2344
	Oxidation	Abs/.1mm	*ASTM D7414		28.5	20.3	17
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.2	8.4	9.9

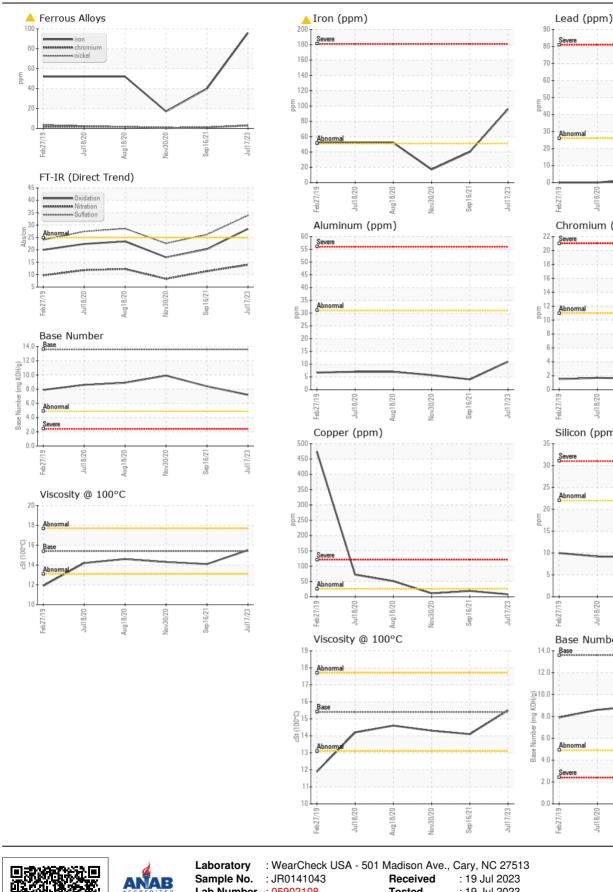
Visc @ 100°C cSt

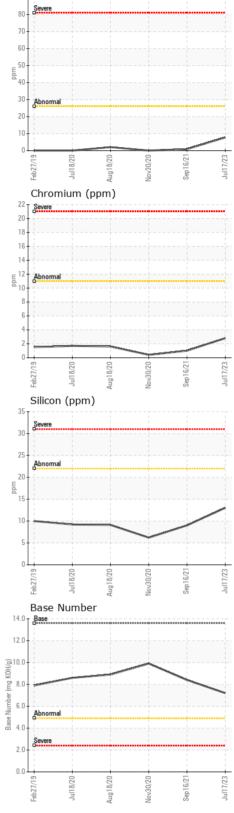
ASTM D445 15.4

15.5

14.3

14.1





**JRE - CHARLOTTE** 9550 STATESVILLE ROAD Lab Number : 05902108 Tested CHARLOTTE, NC : 19 Jul 2023 Unique Number : 10563464 Diagnosed : 20 Jul 2023 - Angela Borella US 28269 Test Package : MOBCE (Additional Tests: TBN) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 F: (704)596-6198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)