

Machine Id

JOHN DEERE 245G 1FF245GXTMF802196

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

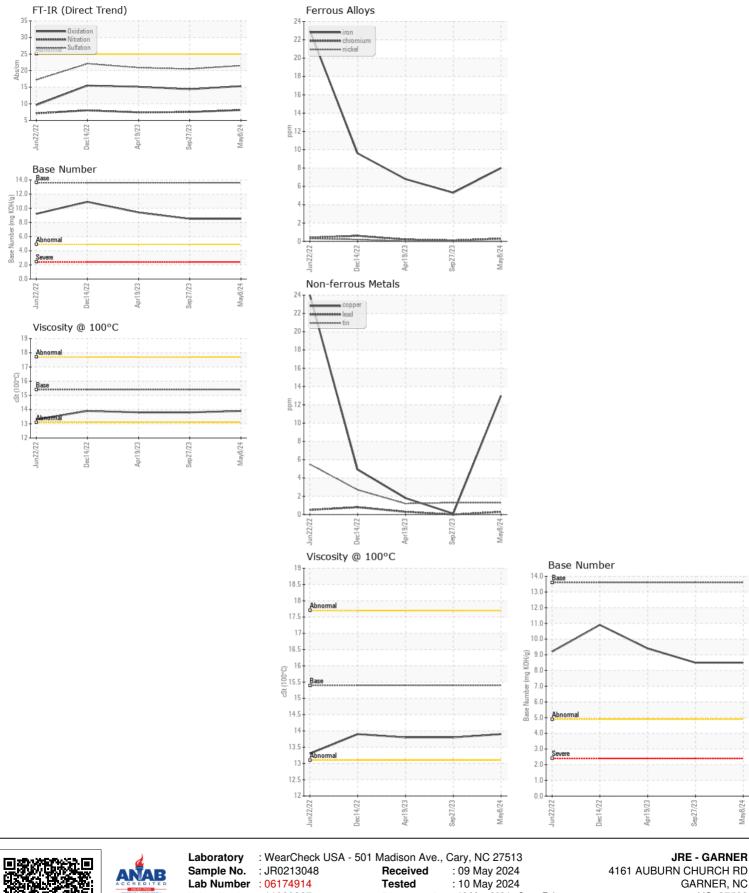
	UGAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0213048	JR0186631	JR0167305
	Sample Date		Client Info		08 May 2024	27 Sep 2023	19 Apr 2023
	Machine Age	hrs	Client Info		3030	2159	1551
	Oil Age	hrs	Client Info		871	608	525
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	8	5	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>31	6	5	<1
	Lead	ppm	ASTM D5185m	>26	<1	0	<1
	Copper	ppm	ASTM D5185m	>26	13	<1	2
	Tin	ppm	ASTM D5185m	>4	1	1	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	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	>22	9	9	10
	Potassium	ppm	ASTM D5185m	>20	2	<1	2
	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	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.5	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.5	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	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	2	0
	Boron	ppm	ASTM D5185m		280	265	257
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		<1	1	0
	Molybdenum	ppm	ASTM D5185m		255	268	247
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		796	878	834
	Calcium	ppm	ASTM D5185m		1521	1478	1500
	Phosphorus	ppm	ASTM D5185m		1001	951	912
	Zinc	ppm	ASTM D5185m		1143	1136	1110
	Sulfur	ppm	ASTM D5185m		3441	3177	3199
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.4	15.1
	Base Number (BN)		ASTM D2896		8.5	8.5	9.4
	Vien (2.10000	- 01	AOTADATS	45.4	10.0	10.0	10.0

Visc @ 100°C cSt ASTM D445 15.4

13.8

13.8

13.9



 Unique Number
 : 11020967
 Diagnosed
 : 13 May 2024 - Sean Felton
 US 27529

 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: RALEIGH SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 seanbetts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (919)614-2260

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (919)779-5432

Submitted By: Steven Bass Page 2 of 2