

## JOHN DEERE 1FF035GXTFK275107

## Diesel Engine

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

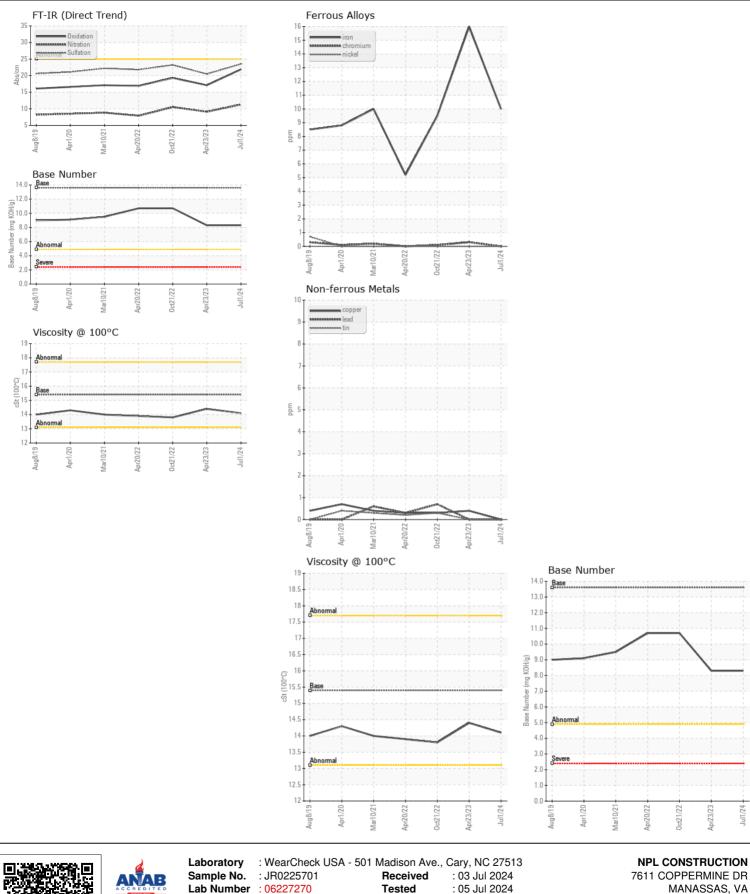
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0225701	JR0169115	JR0146738
	Sample Date		Client Info		01 Jul 2024	23 Apr 2023	21 Oct 2022
	Machine Age	hrs	Client Info		3355	2895	2503
	Oil Age	hrs	Client Info		460	0	2503
	Filter Age	hrs	Client Info		0	0	2503
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	10	16	10
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	4	3
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	0	<1	<1
	Tin	ppm	ASTM D5185m	>4	0	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 There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	11	<b>4</b> 38	11
	Potassium	ppm	ASTM D5185m		1	0	0
	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	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.3	9.1	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.5	23.2
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	0
The DN requiring instant there is suitable all all inits are significant.	Boron	ppm	ASTM D5185m		213	283	256
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		243	256	237
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		839	828	804
	Calcium	ppm	ASTM D5185m		1406	1459	1463
	Phosphorus	ppm	ASTM D5185m		887	894	884
	Zinc	ppm	ASTM D5185m		1051	1106	1058
	Sulfur	ppm	ASTM D5185m		3484	3545	3664
	Oxidation	Abs/.1mm	*ASTM D7414		21.9	17.1	19.3
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.3	10.7
	Vian @ 10000	- 01				4 4 4 4	40.0

Visc @ 100°C cSt ASTM D445 15.4

14.4

13.8

14.1



Lab Number : 06227270 Tested : 05 Jul 2024 Unique Number : 11110763 Diagnosed : 05 Jul 2024 - Wes Davis US 20109-2668 Test Package : CONST (Additional Tests: TBN) Contact: BRANDON Certificate L2367 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)

Report Id: NPLMAN [WUSCAR] 06227270 (Generated: 07/09/2024 20:16:26) Rev: 1

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2

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