

Machine Id JOHN DEERE 1T0310SLEGF295652 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (14 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218001	JR0173087	JR0149760
	Sample Date		Client Info		30 May 2024	12 May 2023	21 Oct 2022
	Machine Age	hrs	Client Info		4022	3688	3360
	Oil Age	hrs	Client Info		334	328	3360
	Filter Age	hrs	Client Info		334	328	3360
	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	6 2	39	17
	Chromium	ppm	ASTM D5185m	>11	1	<1	<1
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	5	4
	Lead	ppm	ASTM D5185m	>26	5	4	18
	Copper	ppm	ASTM D5185m	>26	4	21	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	<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	9	9	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	2	0
There is no indication of any contamination in the oil.	Fuel	pp	WC Method	>2.1	<1.0	_ <1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.3	10.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.9	24.8
	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		ASTM D5185m	<u>_</u> 21	<1	3	0
T LOID CONDITION	Boron	ppm ppm	ASTM D5185m	201	257	247	205
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	3	0
	Molybdenum	ppm	ASTM D5185m		269	262	233
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		798	789	793
	Calcium	ppm	ASTM D5185m		1416	1431	1502
	Phosphorus	ppm	ASTM D5185m		921	910	870
	Zinc	ppm	ASTM D5185m		1096	1060	1069
	Sulfur	ppm	ASTM D5185m		3332	2745	3741
		PP'''			0002	10	0.11

Oxidation

Visc @ 100°C cSt

18.4

8.6

13.8

19.7

9.4

13.6

18.0

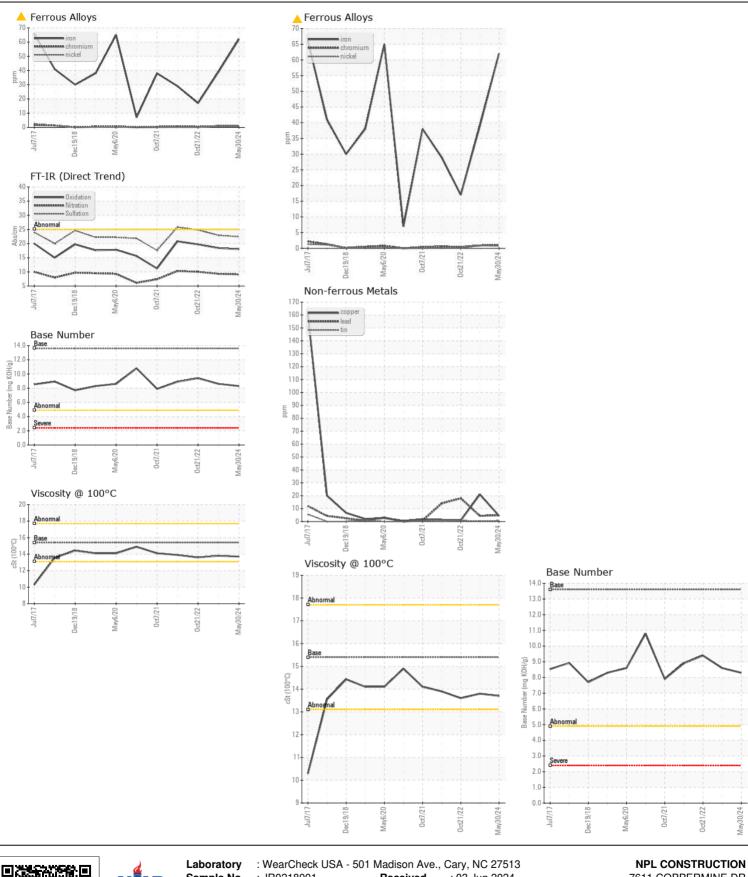
8.3

13.7

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6



Sample No. : JR0218001 Received 7611 COPPERMINE DR : 03 Jun 2024 Lab Number : 06197446 Tested MANASSAS, VA : 04 Jun 2024 Unique Number : 11059569 Diagnosed : 04 Jun 2024 - Don Baldridge 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. T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2