

Machine Id JOHN DEERE 1T0310SLJMF397262

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (14 QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214293	JR0169121	JR0146496
	Sample Date		Client Info		22 Apr 2024	23 Apr 2023	21 Oct 2022
	Machine Age	hrs	Client Info		1793	1305	934
	Oil Age	hrs	Client Info		488	0	934
	Filter Age	hrs	Client Info		488	0	934
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	21	18	21
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		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	4	4
	Lead	ppm	ASTM D5185m	>26	4	0	3
	Copper	ppm	ASTM D5185m	>26	2	3	8
	Tin	ppm	ASTM D5185m	>4	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	9	9
	Potassium	ppm	ASTM D5185m		0	0	0
There is no indication of any contamination in the oil.	Fuel	le le	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	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.1	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	19.8	22.7
	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	ppm	ASTM D5185m	>31	1	2	0
	Boron	ppm	ASTM D5185m		251	281	242
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	0	0
	Molybdenum	ppm	ASTM D5185m		270	256	230
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		916	831	798
	Calcium	ppm	ASTM D5185m		1619	1467	1464
	Phosphorus	ppm	ASTM D5185m		946	903	860
	Zinc	ppm	ASTM D5185m		1211	1098	1056
	Sulfur	ppm	ASTM D5185m		3967	3588	3688
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	15.6	17.3
	Base Number (BN)				8.7	7.8	10.3
		99					

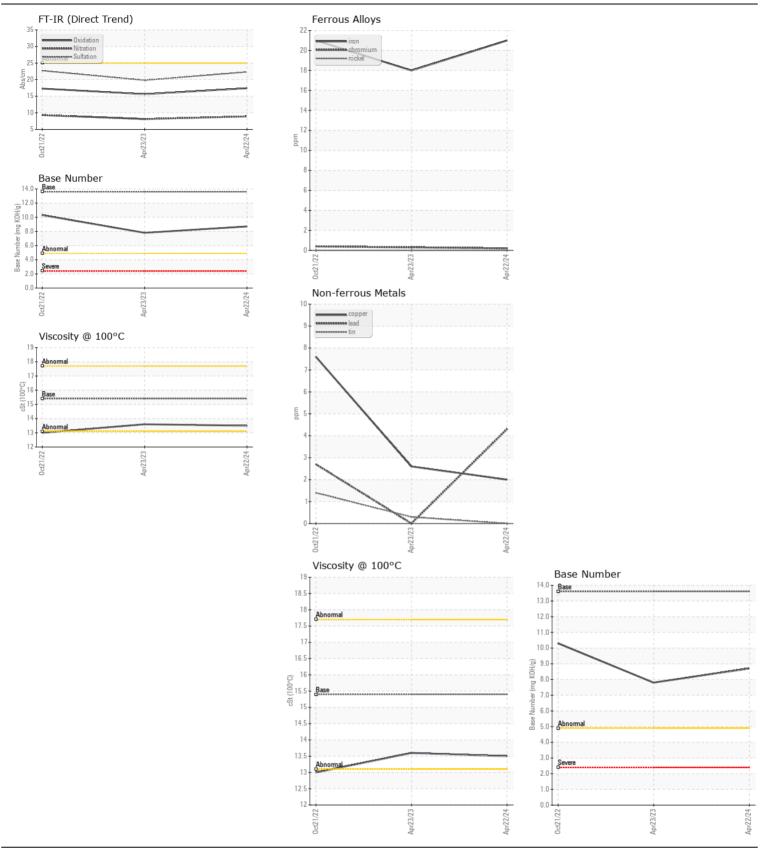
Visc @ 100°C cSt

ASTM D445 15.4

13.6

13.0

13.5



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 NPL CONSTRUCTION Laboratory Sample No. : JR0214293 Received 7611 COPPERMINE DR : 24 Apr 2024 Lab Number : 06159656 Tested : 25 Apr 2024 MANASSAS, VA Unique Number : 10995079 Diagnosed : 25 Apr 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: NPLMAN [WUSCAR] 06159656 (Generated: 04/25/2024 20:48:47) Rev: 1

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2