

JOHN DEERE 410L PM051615 (S/N 1T0410LXLNF420505)

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS JUII 15W40 (
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0221395	JR0195000	JR0169508
	Sample Date		Client Info		27 Jun 2024	06 Dec 2023	26 Jul 2023
	Machine Age	hrs	Client Info		1993	1513	1002
	Oil Age	hrs	Client Info		1513	0	0
	Filter Age	hrs	Client Info		1513	0	0
	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	23	46	27
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	1
	Nickel	ppm	ASTM D5185m	>5	<1	2	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	8	6
	Lead	ppm	ASTM D5185m	>26	3	5	2
	Copper	ppm	ASTM D5185m	>26	<1	3	6
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12	18	14
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		8.4	8.6	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		21.5	21.7	21.2
	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	NORML
	Odor Emulsified Water	scalar	*Visual	NORML	NORML NEG	NORML NEG	NORML
		scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	<1	2	2
	Boron	ppm	ASTM D5185m		245	277	249
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		247	274	248
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		846	876	900
	Calcium	ppm	ASTM D5185m		1432	1504	1634
	Phosphorus	ppm	ASTM D5185m		916	942	981
	Zinc	ppm	ASTM D5185m		1097	1176	1180
	Sulfur	ppm	ASTM D5185m		3377	3050	3772
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	17.6	16.9
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	9.0	8.8
	Vice @ 10000	- 0+		4 - 4	10.0	10.4	10.0

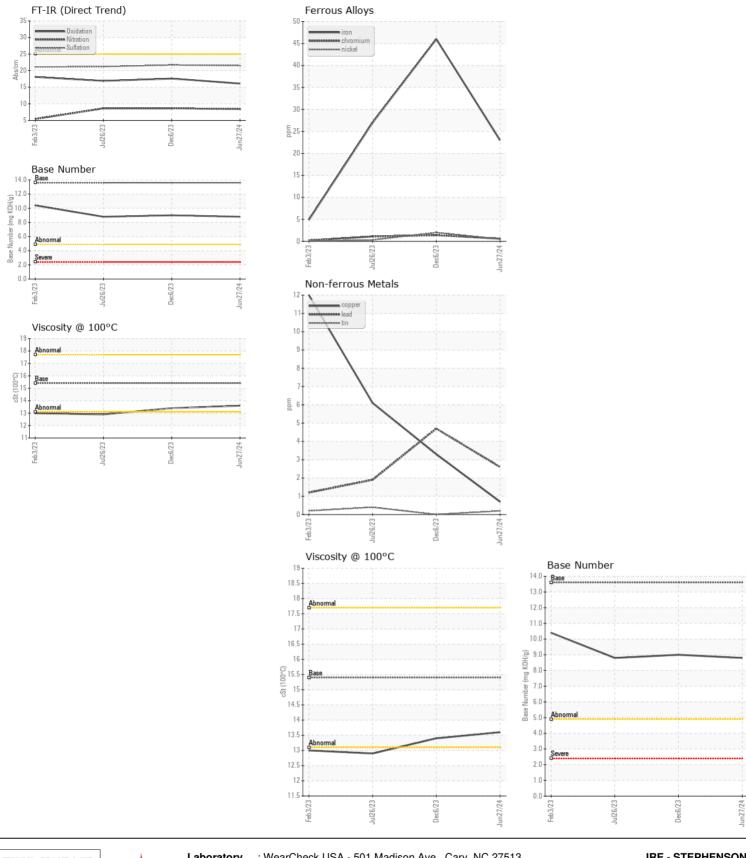
Visc @ 100°C cSt

ASTM D445 15.4

12.9

13.4

13.6



JRE - STEPHENSON Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0221395 Received 245 YARDMASTER COURT : 01 Jul 2024 Lab Number : 06225563 Tested STEPHENSON, VA : 03 Jul 2024 Unique Number : 11103760 Diagnosed : 03 Jul 2024 - Wes Davis US 22656-1761 Test Package : CONST (Additional Tests: TBN) Contact: PHIL DAUGHERTY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pdaugherty@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: F: (540)693-2588 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: COTY MAGAHA Page 2 of 2