WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

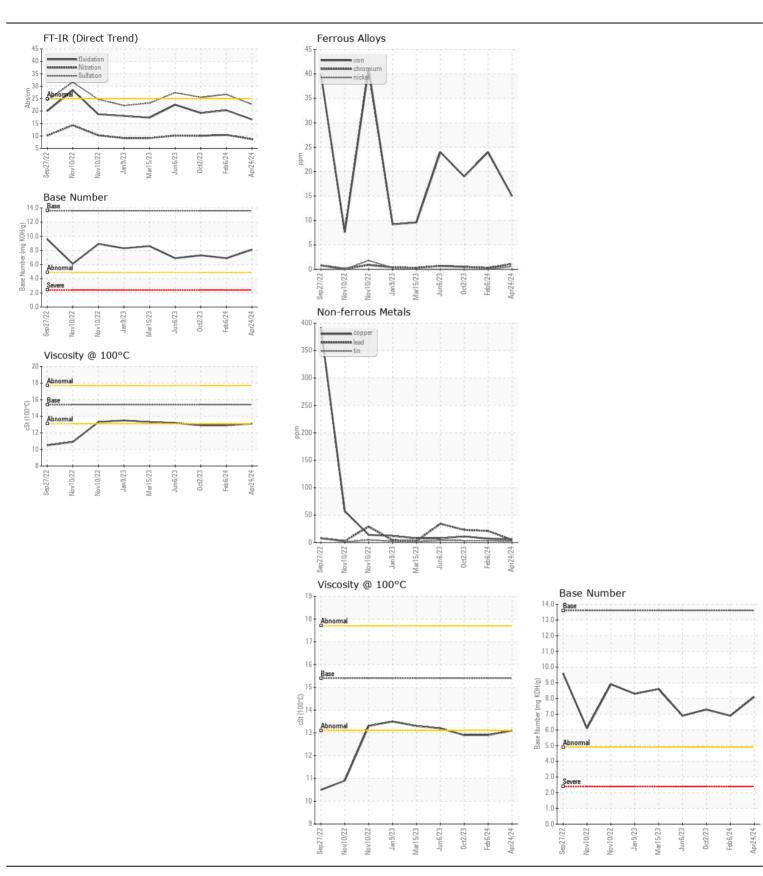


Machine Id JOHN DEERE 410E 1DW410EBJNF715317

Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HESSIMIENDATION	Sample Number		Client Info		JR0214154	,	JR0182323
Resample at the next service interval to monitor.	Sample Date		Client Info		24 Apr 2024	06 Feb 2024	02 Oct 2023
	Machine Age	hrs	Client Info		5283	4821	3978
	Oil Age	hrs	Client Info		462	843	810
	Filter Age	hrs	Client Info		462	843	810
	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	15	24	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	10	10	<1
	Lead	ppm	ASTM D5185m		5	21	23
	Copper	ppm	ASTM D5185m	>26	6	7	11
	Tin	ppm		>4	2	3	4
	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	nnm	ASTM D5185m	> 22	8	5	6
CONTAININATION	Potassium	ppm	ASTM D5185m		3	2	0
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.∠1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.3	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	10.4	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	26.7	25.5
	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	3	4	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		204	45	33
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	1	0
	Molybdenum	ppm	ASTM D5185m		261	278	260
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m		829	852	857
	Calcium	ppm	ASTM D5185m		1400	1404	1451
	Phosphorus	ppm	ASTM D5185m		892	876	801
	Zinc	ppm	ASTM D5185m		1068	1060	1027
	Sulfur	ppm Abs/dame	ASTM D5185m	05	3329	2902	2964
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	20.3	19.2
	Base Number (BN)				8.1	6.9	7.3
	Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.9	12.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06161305

: JR0214154 Unique Number: 10996728

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 26 Apr 2024 : 28 Apr 2024 Diagnosed

: 28 Apr 2024 - Wes Davis

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD

NEW BERN, NC US 28562

Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com

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)

Test Package : CONST (Additional Tests: TBN)

T: F: