WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

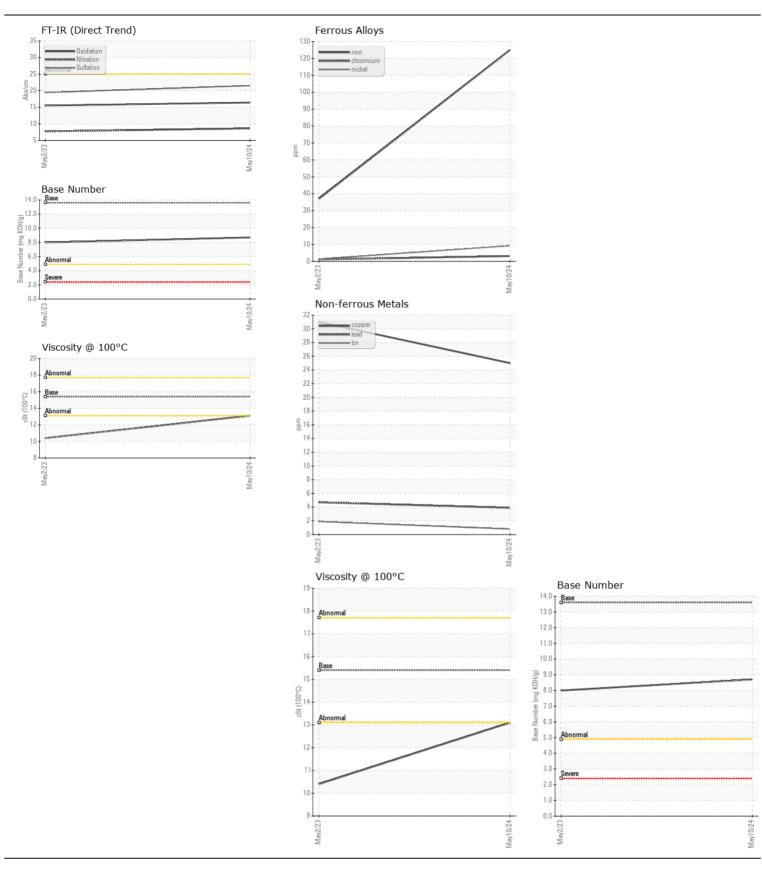
[05W46143]

JOHN DEERE 410L 1T0410LXCNF420511

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1					-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0210965	JR0173048	
	Sample Date		Client Info		10 May 2024	02 May 2023	
	Machine Age	hrs	Client Info		982	442	
	Oil Age	hrs	Client Info		540	442	
	Filter Age	hrs	Client Info		540	442	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>51	125	37	
	Chromium	ppm	ASTM D5185m		3	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		9	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		10	10	
	Lead	ppm	ASTM D5185m		4	5	
	Copper	ppm	ASTM D5185m		25	31	
	Tin	ppm	ASTM D5185m		<1	2	
	Vanadium	ppm	ASTM D5185m	- '	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		26	16	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	3	
	Fuel		WC Method		<1.0	0.5	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624		8.6	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	4	
	Boron	ppm	ASTM D5185m		253	249	
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	
	Molybdenum	ppm	ASTM D5185m		258	238	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m		838	852	
	Calcium	ppm	ASTM D5185m		1574	1468	
	Phosphorus	ppm	ASTM D5185m		951	925	
	Zinc	ppm	ASTM D5185m		1140	1123	
		ppm	ASTM D5185m		3651	3621	
	Sulfur						
	Sulfur Oxidation			>25		15.5	
	Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		16.4 8.7	15.5 8.0	







Certificate L2367

Laboratory Sample No.

Lab Number : 06177005 Unique Number : 11023058 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0210965

Received **Tested** Diagnosed

: 13 May 2024 : 14 May 2024

: 14 May 2024 - Wes Davis

9107 OWENS DRIVE MANASSAS PARK, VA

US 20111 Contact: DON VEST

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JRE - MANASSAS PARK

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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)