WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

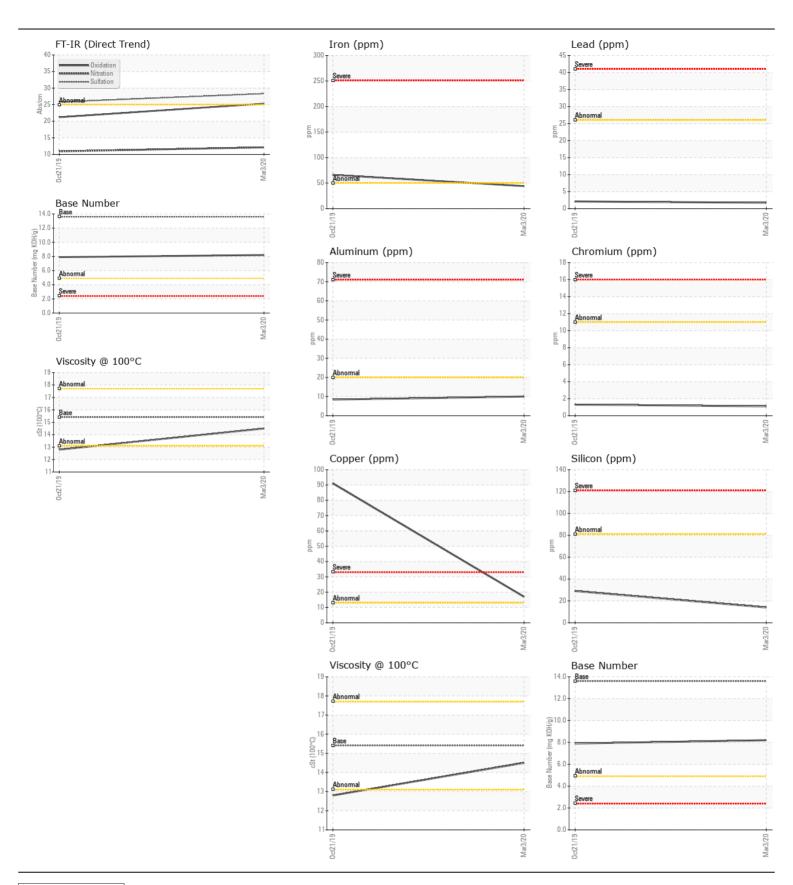
Machine Id

JOHN DEERE 318G 1T0318GJAJJ340515

Diesel Engine

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

MENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0034994	JR0013545	
	Sample Date		Client Info		03 Mar 2020	21 Oct 2019	
	Machine Age	hrs	Client Info		1048	573	
	Oil Age	hrs	Client Info		500	573	
	Filter Age	hrs	Client Info		500	573	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
	Iron	ppm	ASTM D5185m	>50	44	66	
WEAR	Chromium	ppm	ASTM D5185m		1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	10	8	
	Lead	ppm	ASTM D5185m		2	2	
	Copper	ppm	ASTM D5185m	>13	17	<u></u> 91	
	Tin	ppm	ASTM D5185m	>4	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
MINIATION	0:::		AOTA DE LOS				
MINATION	Silicon	ppm	ASTM D5185m		14	29	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	0/	WC Method	. 0	NEG	NEG	
	Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	1.4 12.1	1.1 10.9	
	Sulfation	Abs/.1mm	*ASTM D7024		28.3	25.8	
	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	
CONDITION	Sodium	ppm	ASTM D5185m	>31	5	8	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		139	110	
	Barium	ppm	ASTM D5185m		<1	1	
	Molybdenum	ppm	ASTM D5185m		248	192	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		768	574	
	Calcium	ppm	ASTM D5185m		1506	1920	
	Phosphorus	ppm	ASTM D5185m		836	720	
	Zinc	ppm	ASTM D5185m		1005	1083	
	Sulfur	ppm Aba/1mm	ASTM D5185m	05	2358	2628	
	Oxidation	Abs/.1mm	*ASTM D7414		25.3	21.2	
	Base Number (BN)	0 0	ASTM D2896		8.2	7.9	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.5	12.8	





Certificate L2367

Report Id: RWMNEW [WUSCAR] 04927553 (Generated: 05/30/2024 07:57:21) Rev: 1

Laboratory Sample No.

Lab Number : 04927553 Unique Number : 8947645

: JR0034994

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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

: 05 Mar 2020 : 09 Mar 2020 Diagnosed

: 09 Mar 2020 - Jonathan Hester

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD NEW BERN, NC

US 28562

Test Package: MOBCE (Additional Tests: TBN) Contact: JEFF BROWN To discuss this sample report, contact Customer Service at 1-800-237-1369. jeff.brown@jamesriverequipment.com

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