

OIL ANALYSIS REPORT

Machine Id **JOHN DEERE 40315** Component Diesel Engine TRC MOLY XL PRO-SPEC IV XP 10W30 (7 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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k, or cam shaft wear is indicated. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives All other metal levels are typical for a new component breaking in.

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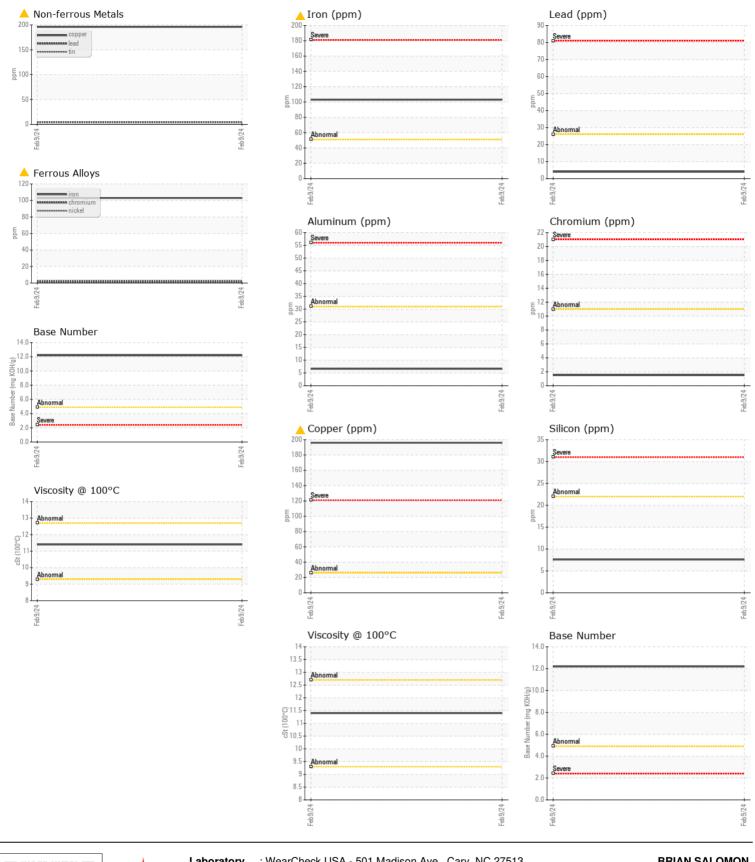
CONTAMINATION

There is no indication of any contamination in the oil.

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	Test	UOM	Method	Limit/Abn	c	urrent	History1	History2
	Sample Number		Client Info		TF	R06086734		
	Sample Date		Client Info		09	Feb 2024		
	Machine Age	mls	Client Info		11	104		
	Oil Age	mls	Client Info		50	00		
	Filter Age	mls	Client Info		50	00		
	Oil Changed		Client Info		С	hanged		
	Filter Changed		Client Info			hanged		
	Sample Status					BNORMAL		
	Iron	ppm	ASTM D5185m	>51		103		
	Chromium	ppm	ASTM D5185m	>11		2		
	Nickel	ppm	ASTM D5185m	>5		3		
C	Titanium	ppm	ASTM D5185m			<1		
es.	Silver	ppm	ASTM D5185m	>3		0		
	Aluminum	ppm	ASTM D5185m	>31		7		
	Lead	ppm	ASTM D5185m	>26		4		
	Copper	ppm	ASTM D5185m	>26		196		
	Tin	ppm	ASTM D5185m	>4		4		
	Vanadium	ppm	ASTM D5185m			0		
	White Metal	scalar	*Visual	NONE		NONE		
	Yellow Metal	scalar	*Visual	NONE		NONE		
	Silicon	ppm	ASTM D5185m	>22		8		
	Potassium	ppm	ASTM D5185m	>20		1		
	Fuel		WC Method	>2.1		<1.0		
	Water		WC Method	>0.21		NEG		
	Glycol		WC Method			NEG		
	Soot %	%	*ASTM D7844	>3		0.6		
	Nitration	Abs/cm	*ASTM D7624	>20		9.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30		22.3		
	Silt	scalar	*Visual	NONE		NONE		
	Debris	scalar	*Visual	NONE		NONE		
	Sand/Dirt	scalar	*Visual	NONE		NONE		
	Appearance	scalar	*Visual	NORML		NORML		
	Odor	scalar	*Visual	NORML		NORML		
	Emulsified Water	scalar	*Visual	>0.21		NEG		
	Sodium	ppm	ASTM D5185m	>31		3		
	Boron	ppm	ASTM D5185m			6		
ne	Barium	ppm	ASTM D5185m			0		
	Molybdenum	ppm	ASTM D5185m			153		
	Manganese	ppm	ASTM D5185m			1		
	Magnesium	ppm	ASTM D5185m			80		
	Calcium	ppm	ASTM D5185m			4133		
	Phosphorus	ppm	ASTM D5185m			817		
	Zinc	ppm	ASTM D5185m			1082		
	Sulfur	ppm	ASTM D5185m			3768		
	Oxidation	Abs/.1mm	*ASTM D7414	>25		11.9		
	Base Number (BN)	mg KOH/g	ASTM D2896			12.19		
	Visc @ 100°C	cSt	ASTM D445			11.4		
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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.



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BRIAN SALOMON** Sample No. : TR06086734 **PO BOX 127** Received : 12 Feb 2024 Lab Number : 06086734 : 13 Feb 2024 CHURUBUSCO, IN Tested : 14 Feb 2024 - Don Baldridge US 46723 Unique Number : 10874179 Diagnosed Test Package : MOB 2 Contact: JUNIOR STAILEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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: BRICHU [WUSCAR] 06086734 (Generated: 02/14/2024 11:58:02) Rev: 1

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Contact/Location: JUNIOR STAILEY - BRICHU