

Machine Id JOHN DEERE 333G 1T0333GMHRF459867 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION	
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Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

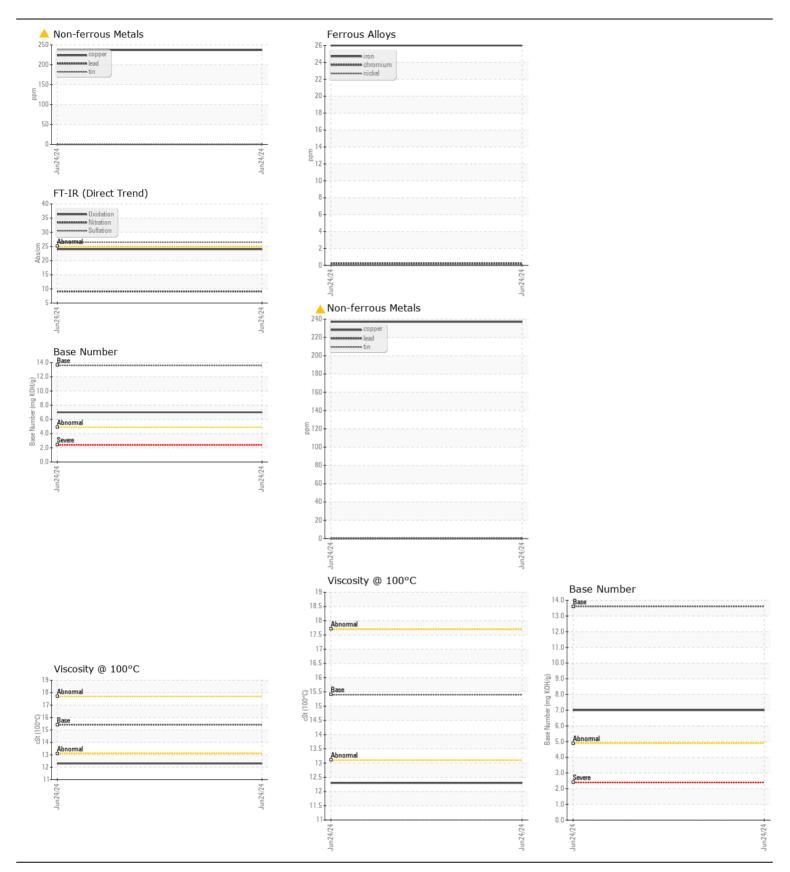
CONTAMINATION

There is no indication of any contamination in the oil.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
- ·	Sample Number		Client Info		JR0212110		
Resample	Sample Date		Client Info		24 Jun 2024		
	Machine Age	hrs	Client Info		468		
	Oil Age	hrs	Client Info		468		
	Filter Age	hrs	Client Info		468		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
	Iron	ppm	ASTM D5185m	>51	26		
aant waar	Chromium	ppm	ASTM D5185m	>11	<1		
cant wear cooling	Nickel	ppm	ASTM D5185m	>5	0		
breaking	Titanium	ppm	ASTM D5185m		0		
broaring	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	0		
	Copper	ppm	ASTM D5185m	>26	A 237		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	ppm	ASTM D5185m	>22	37		
	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	26.5		
	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	10		
	Boron	ppm	ASTM D5185m		162		
ning in the	Barium	ppm	ASTM D5185m		2		
ce.	Molybdenum	ppm	ASTM D5185m		217		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		649		
	Calcium	ppm	ASTM D5185m		1766		
	Phosphorus	ppm	ASTM D5185m		835		
	Zinc	ppm	ASTM D5185m		1204		
	Sulfur	ppm	ASTM D5185m		2919		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.0		
	Visc @ 100°C	cSt	ASTM D445	15.4	12.3		

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0212110 Received 11047 LEADBETTER RD : 26 Jun 2024 Lab Number : 06220974 Tested ASHLAND, VA : 27 Jun 2024 Unique Number : 11099171 Diagnosed : 27 Jun 2024 - Jonathan Hester US 23005 Test Package : CONST (Additional Tests: FuelDilution, TBN) Contact: DAVID ZIEG Certificate L2367 dzieg@jamesriverequipment.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. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2