

WEAR **ABNORMAL** CONTAMINATION **ABNORMAL** FLUID CONDITION NORMAL



JOHN DEERE 333G 1T0333GMPJF330716

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 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.

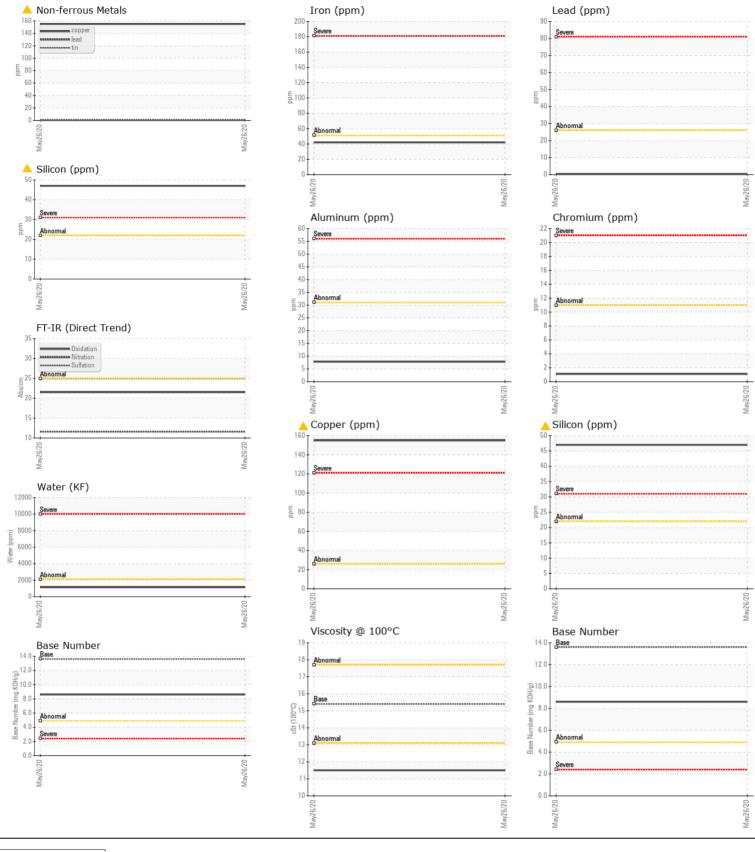
CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0011824		
Sample Date		Client Info		26 May 2020		
Machine Age	hrs	Client Info		534		
Oil Age	hrs	Client Info		534		
Filter Age	hrs	Client Info		534		
Oil Changed	1110	Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status		Oliciti IIIO		ABNORMAL		
Iron	ppm	ASTM D5185m	>51	42		
Chromium	ppm	ASTM D5185m	>11	1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>31	8		
Lead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	A 155		
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	4 7		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>2.1	<1.0		
Water	%	ASTM D6304	>0.21	0.113		
ppm Water	ppm	ASTM D6304	>2100	1130		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	11.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9		
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	nom	ASTM D5185m	、Q1	10		
_	ppm	ASTM D5185m ASTM D5185m	>31	10		
Boron	ppm			173		
Barium	ppm	ASTM D5185m ASTM D5185m		2		
Molybdenum	ppm			241 1		
Manganese Magnesium	ppm	ASTM D5185m				
Calcium	ppm	ASTM D5185m ASTM D5185m		788 1834		
	ppm					
Phosphorus Zinc	ppm	ASTM D5185m		901 1086		
Sulfur	ppm	ASTM D5185m ASTM D5185m		2755		
Oxidation	ppm		>25			
	Abs/.1mm	*ASTM D7414		21.5		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6		
Visc @ 100°C	cSt	ASTM D445	15.4	11.5		

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.



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0011824 : 28 May 2020 Lab Number : 04987440 : 30 May 2020 Tested MARIETTA, OH Unique Number : 9047588 : 30 May 2020 - Don Baldridge US 45750-9765 Diagnosed Test Package : MOBCE (Additional Tests: FuelDilution, KF, TBN) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE 9 - MARIETTA - LEANNE KENDALL Page 2 of 2