

Limit/Abn **Current** 

History1

History2



## Store 2 - Beaver [RO#146828] JOHN DEERE 333G 1T0333GMVPF449803 Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (3 GAL)

Test

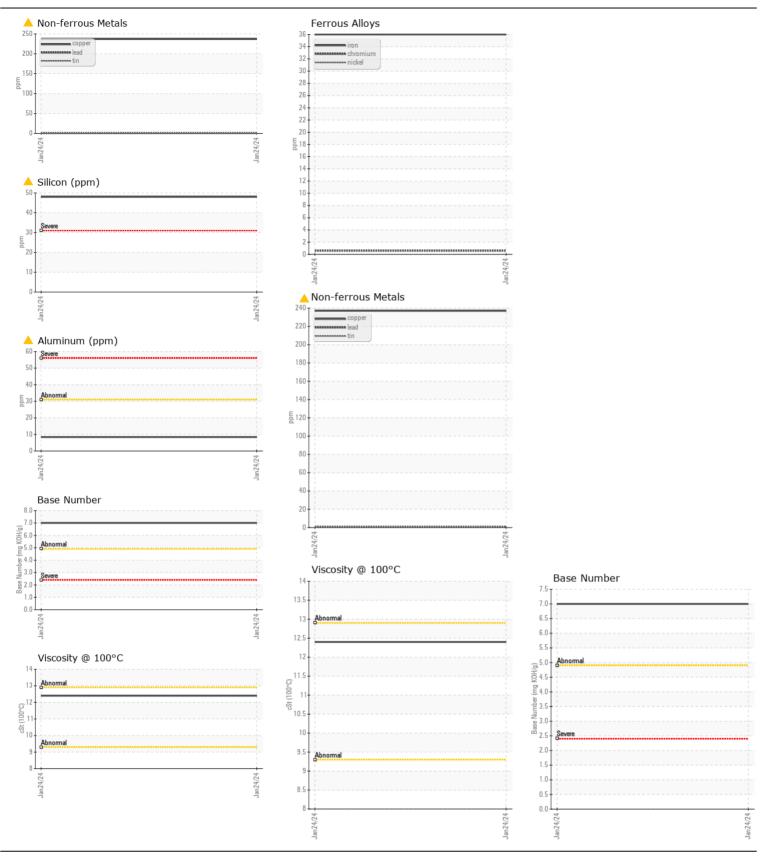
UOM

Method

RECOMMENDATION

RECOMMENDATION	Test	UOIVI	wethod	Limit/Apr	Current	HIStory I	HIStory2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: BREAK IN OIL )	Sample Number		Client Info		LEC0046884		
	Sample Date		Client Info		24 Jan 2024		
	Machine Age	hrs	Client Info		626		
	Oil Age	hrs	Client Info		626		
	Filter Age	hrs	Client Info		626		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Oliciti IIIO		ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	36		
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.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	20	<1		
	Silver	ppm	ASTM D5185m	-3	<1		
	Aluminum		ASTM D5185m		▲ 8		
		ppm					
	Lead	ppm	ASTM D5185m		<1 <b>4</b> 237		
	Copper	ppm	ASTM D5185m				
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<b>CONTAMINATION</b> Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>!20	<b>4</b> 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	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	10.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.4		
	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		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	9		
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.	Boron	ppm	ASTM D5185m		180		
	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		244		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		767		
	Calcium	ppm	ASTM D5185m		1731		
	Phosphorus	ppm	ASTM D5185m		850		
	Zinc	ppm	ASTM D5185m		1117		
	Sulfur	ppm	ASTM D5185m		2810		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	27.4		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.0		
	Visc @ 100°C	cSt	ASTM D445		12.4		
					$\sim$		

## FLUID CONDITION



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LEC0046884 Recieved : 30 Jan 2024 105 TENNIS CENTER DR. Lab Number : 31 Jan 2024 MARIETTA, OH : 06074338 Diagnosed : 10856429 Diagnostician : Sean Felton US 45750-9765 Unique Number Test Package : CONST (Additional Tests: 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: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: STORE 2 - BEAVER - CASEY TONEY