

Machine Id JOHN DEERE 344L L-5 (S/N 1LU344LXKZB057685) Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

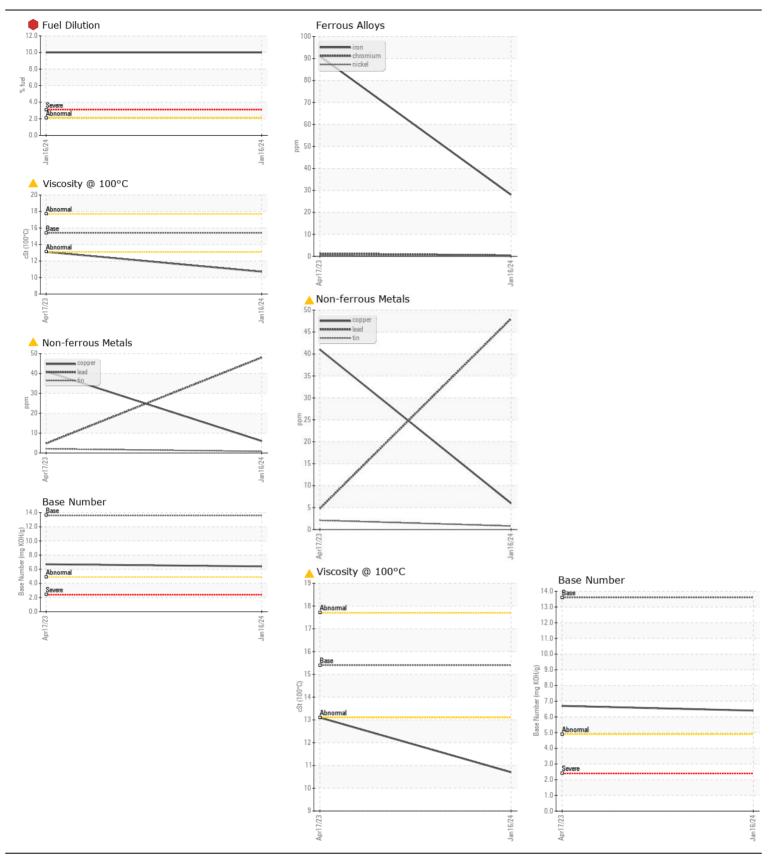
RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0196388	JR0160803	
	Sample Date		Client Info		16 Jan 2024	17 Apr 2023	
	Machine Age	hrs	Client Info		1554	1030	
	Oil Age	hrs	Client Info		524	502	
	Filter Age	hrs	Client Info		524	502	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	28	9 1	
The lead level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	3	9	
	Lead	ppm	ASTM D5185m		4 8	5	
	Copper	ppm	ASTM D5185m		6	4 1	
	Tin	ppm	ASTM D5185m		<1	2	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	~22	7	12	
	Potassium	ppm	ASTM D5185m		3	3	
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524		10.0	<1.0	
	Water	,0	WC Method		NEG	NEG	
	Glycol		WC Method	20.21	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.8	
	Nitration	Abs/cm	*ASTM D7624		11.3	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		25.7	24.0	
	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		*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium		ASTM D5185m	、Q1	0	4	
	Boron	ppm	ASTM D5185m	201	74	4	
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		4	0	
		ppm	ASTM D5185m ASTM D5185m		4 229	266	
	Molybdenum Manganese	ppm	ASTM D5185m		<1 229	3	
	Manganese	ppm	ASTM D5185m		<1 767	835	
	Calcium	ppm	ASTM D5185m ASTM D5185m		1173	1506	
		ppm					
	Phosphorus	ppm	ASTM D5185m		695 840	928	
	Zinc	ppm	ASTM D5185m		840	1128	
	Sulfur	ppm	ASTM D5185m	05	2831	3316	
	Oxidation	Abs/.1mm	*ASTM D7414		21.1	17.4	
	Base Number (BN)	ma KOH/a	ASTM D2896	13.6	6.4	6.7	

Visc @ 100°C cSt

ASTM D445 15.4

13.1

10.7



DIVERSIFIED BIO-MASS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0196388 Recieved : 18 Jan 2024 606 SUNYDALE DR Lab Number : 06064063 Diagnosed WILMINGTON, NC : 24 Jan 2024 : 10835445 Diagnostician : Doug Bogart US 28412 Unique Number Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: CHRIS DAWSON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. chris@tubgrinding.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (914)279-6817 F: (910)793-6227 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: CHRIS DAWSON - DIVWIL

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