

Machine Id JOHN DEERE 3038E 1LV3038ECHH106335 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 QTS)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 (15)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0189710	JR0135430	JR009350
	Sample Date		Client Info		13 Dec 2023	12 Dec 2022	20 Dec 202
	Machine Age	hrs	Client Info		297	256	202
	Oil Age	hrs	Client Info		0	0	91
	Filter Age	hrs	Client Info		0	0	91
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	<1	4	5
	Chromium	ppm	ASTM D5185m	>11	0	0	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	2	2
	Lead	ppm	ASTM D5185m		-1	0	<1
	Copper	ppm	ASTM D5185m		1	4	6
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	14	7	9
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		0	0	0
	Fuel	%	ASTM D3524	>2.1	• 3.2	4 .5	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.2	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	21.1	20.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	2	2
	Boron	ppm	ASTM D5185m		242	270	237
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		225	235	230
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		741	724	787
	Calcium	ppm	ASTM D5185m		1267	1378	1358
	Phosphorus	ppm	ASTM D5185m		833	835	810
	Zinc	ppm	ASTM D5185m		1010	967	918
	Sulfur	ppm	ASTM D5185m		2847	3246	2422
		1. / 4		05		40.0	10.1

Oxidation

Visc @ 100°C cSt

16.2

12.4

11.1

14.9

10.0

12.8

Abs/.1mm *ASTM D7414 >25

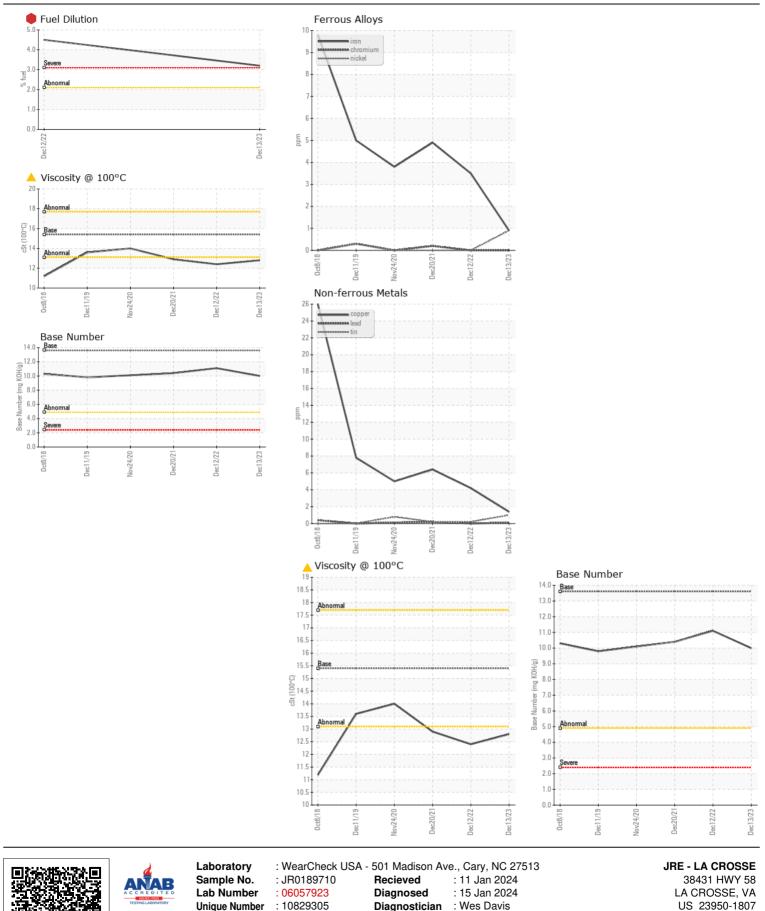
ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6

16.1

12.9

10.4



: 10829305 Diagnostician : Wes Davis Unique Number Test Package : CONST (Additional Tests: PercentFuel, TBN) Certificate L2367 hgreen@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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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