

Machine Id JOHN DEERE 3038E 1LV3038EPLL130885 Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0191494	JR0144747	JR0115297
	Sample Date		Client Info		22 Apr 2024	02 Jun 2023	07 Jun 2022
	Machine Age	hrs	Client Info		410	369	318
	Oil Age	hrs	Client Info		41	0	116
	Filter Age	hrs	Client Info		0	0	116
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	6	4	9
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	3	3
	Lead	ppm	ASTM D5185m	>26	1	0	<1
	Copper	ppm	ASTM D5185m	>26	3	4	6
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	16	9	9
	Potassium	ppm	ASTM D5185m	>20	2	0	<1
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<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	6.9	7.3	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	19.9	20.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	1	3
	Boron	ppm	ASTM D5185m		281	297	243
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		218	241	231
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		712	853	766
	Calcium	ppm	ASTM D5185m		1464	1461	1331
	Phosphorus	ppm	ASTM D5185m		998	915	803
	Zinc	ppm	ASTM D5185m		1062	1111	959
	Sulfur	ppm	ASTM D5185m		3851	3767	2818
	Oxidation	Abs/.1mm	*ASTM D7414		15.1	15.9	16.9
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.0	9.5	10.1

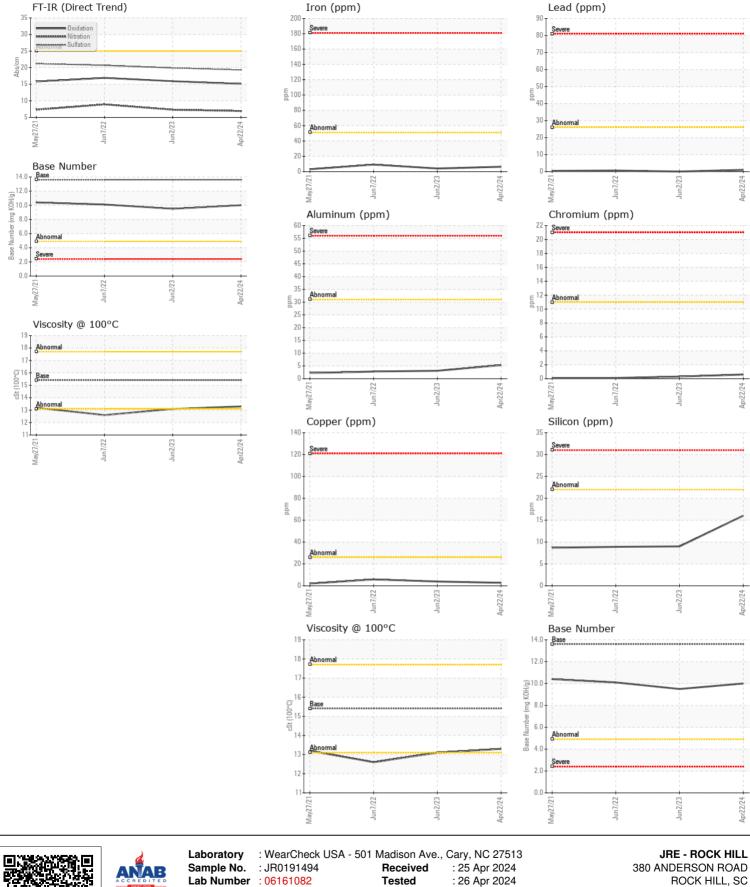
Visc @ 100°C cSt

ASTM D445 15.4

13.1

13.3

12.6



 Unique Number
 : 10996505
 Diagnosed
 : 26 Apr 2024 - Wes Davis
 US 29730

 Certificate L2367
 Test Package
 : MOBCE (Additional Tests: TBN)
 Contact: P WILLIS

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 pwillis@jamesriverequipment.com

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (803)325-1506

Submitted By: STEPHANIE YOUNG Page 2 of 2