

Machine Id JOHN DEERE 844J DW844JX613105

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0146062	JR0197535	JR0197876
Resample at the next service interval to monitor.	Sample Date		Client Info		23 Apr 2024	18 Jan 2024	16 Jan 2024
	Machine Age	hrs	Client Info		35162	34682	34513
	Oil Age	hrs	Client Info		0	169	362
	Filter Age	hrs	Client Info		0	0	362
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		36	9	▲ 78
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	2	3
	Lead	ppm	ASTM D5185m		3	2	8
	Copper	ppm	ASTM D5185m		5	1	6
	Tin	ppm	ASTM D5185m	>4	1	<1	2
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	16	6	9
	Potassium	ppm	ASTM D5185m	>20	1	2	1
There is no indication of any contamination in the oil.	Fuel	1-1-		>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	0.9	0.3	1.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.1	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	20.5	21.7
	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		ASTM D5185m	2 21	6		0
	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>01	6 204	<1 246	2 63
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		243	227	99
	Manganese	ppm	ASTM D5185m			0	
		ppm			<1		<1
	Magnesium	ppm	ASTM D5185m		812	793	407
	Calcium	ppm	ASTM D5185m ASTM D5185m		1634	1382	1995
	Phosphorus	ppm			919	900	916
	Zinc	ppm	ASTM D5185m		1138	1077	1251
	Sulfur	ppm	ASTM D5185m	. 05	3361	3087	3226
	Oxidation	Abs/.1mm	*ASTM D7414		16.4	15.0	15.3
	Base Number (BN)	ng KUH/g	ASTM D2896	13.6	8.8	9.5	7.4

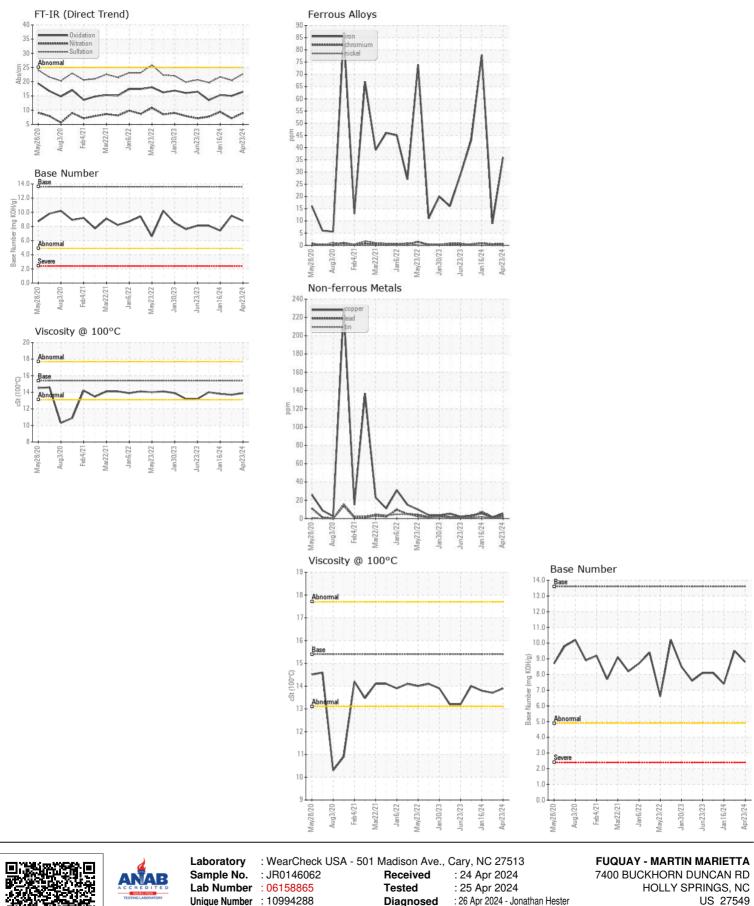
Visc @ 100°C cSt

ASTM D445 15.4

13.7

13.8

13.9



Certificate L2367 Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800

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)

Submitted By: JOHN GUASCHINO Page 2 of 2

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