

JOHN DEERE 300D 1DW300DXLEE661363

Diesel Engine

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

JOHN DEERE ENGINE OIL PLOS 30 II 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0220464	JR0177950	JR0014274
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024	01 Aug 2023	12 Aug 2019
	Machine Age	hrs	Client Info		5000	2425	3936
	Oil Age	hrs	Client Info		1507	509	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	20	17	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	<1	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	3	6
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		1	0	<1
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0'''				<u>^</u>		
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	7	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	<1	0
,	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844		0.3	0.2	0.3
	Sulfation	Abs/cm	*ASTM D7624 *ASTM D7415	>20	8.0	7.2 19.7	7.4 20.6
	Silt	Abs/.1mm	*Visual	NONE	20.6 NONE	NONE	20.0 NONE
	Debris	scalar 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	2	2	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		221	264	201
	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		263	245	220
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		772	835	797
	Calcium	ppm	ASTM D5185m		1376	1575	1483
	Phosphorus	ppm	ASTM D5185m		826	941	857
	Zinc	ppm	ASTM D5185m		1040	1119	982
	Sulfur Oxidation	ppm	ASTM D5185m	- OF	2569	3737	2550
		Abs/.1mm	*ASTM D7414		14.8	14.5 9.4	15.3
	Base Number (BN)	mg KOH/g	ASTM D2896	13.0	8.9	9.4	9.2

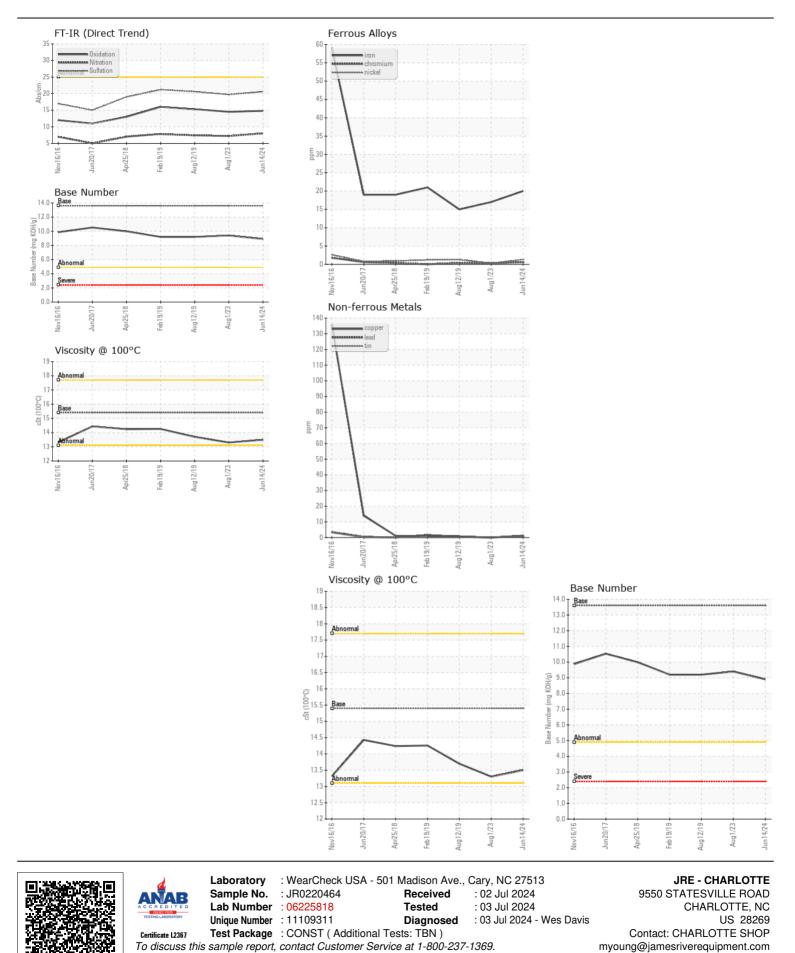
Visc @ 100°C cSt

ASTM D445 15.4

13.3

13.7

13.5



* - 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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