

JOHN DEERE 701655

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 QTS)

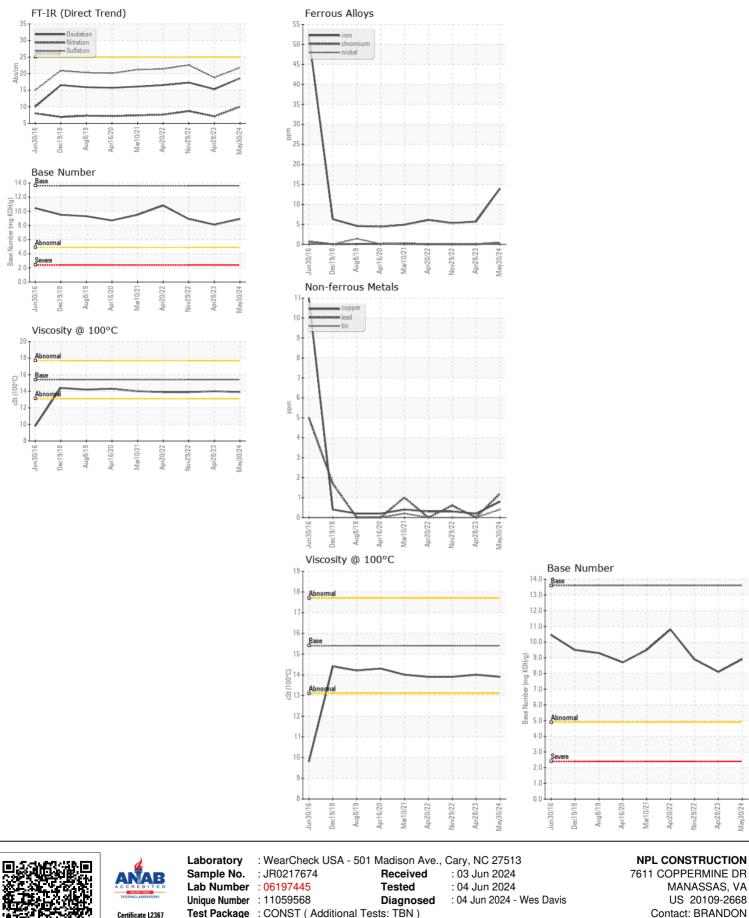
	5 (13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217674	JR0169042	JR0146486
	Sample Date		Client Info		30 May 2024	28 Apr 2023	29 Nov 2022
	Machine Age	hrs	Client Info		2349	1876	1724
	Oil Age	hrs	Client Info		473	152	1724
	Filter Age	hrs	Client Info		473	152	1724
	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	14	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	0	0
	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		1	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	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	11	11	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	0
	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	0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624		10.0	7.1	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	18.8	22.6
	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 The BN result indicates that there is suitable alkalinity remaining in the	Sodium	ppm	ASTM D5185m	>31	0	1	2
	Boron	ppm	ASTM D5185m		283	317	277
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		268	241	253
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		834	835	800
	Calcium	ppm	ASTM D5185m		1423	1404	1486
	Phosphorus	ppm	ASTM D5185m		988	923	893
	Zinc	ppm	ASTM D5185m		1173	1135	1069
	Sulfur	ppm	ASTM D5185m		3461	3797	3675
	Oxidation	Abs/.1mm	*ASTM D7414		18.6	15.3	17.3
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.1	8.9
		or.+	ALTER 1 13 / 4 /	1 - 1	400	4 140	100

Visc @ 100°C cSt ASTM D445 15.4

14.0

13.9

13.9



Test Package : CONST (Additional Tests: TBN) Certificate L2367

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: TECHNICIAN ACCOUNT Page 2 of 2