

[46267]

JOHN DEERE 700L 1T0700LXJNF420997

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (29 QTS)

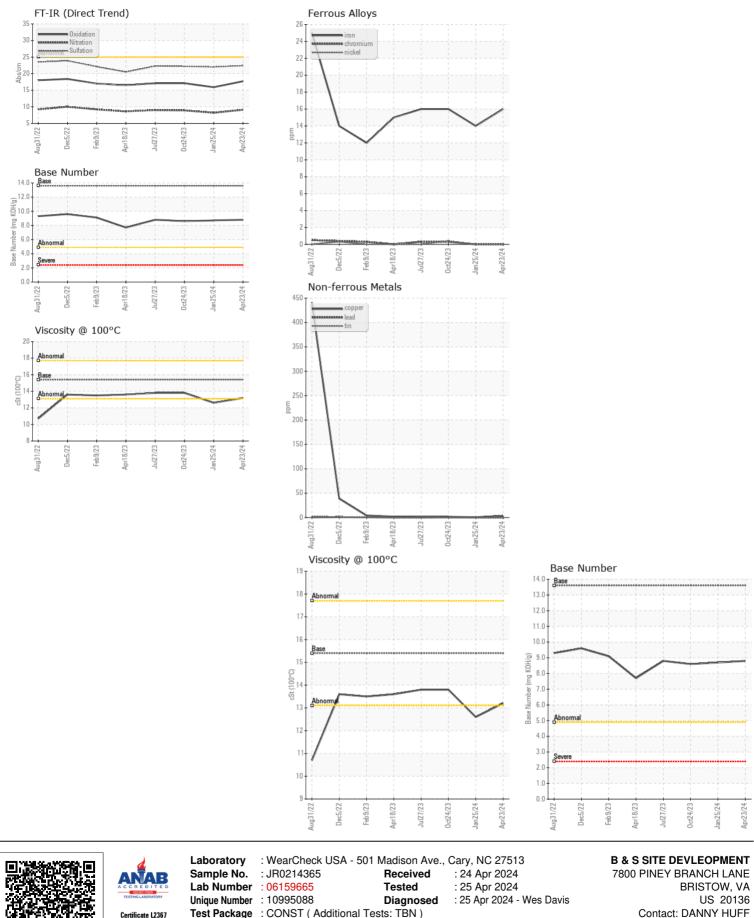
	29 (13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214365	JR0199259	JR0190134
	Sample Date		Client Info		23 Apr 2024	25 Jan 2024	24 Oct 2023
	Machine Age	hrs	Client Info		3965	3432	2977
	Oil Age	hrs	Client Info		533	2934	498
	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	16	14	16
	Chromium	ppm	ASTM D5185m	>11	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	3	5
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	3	<1	2
	Tin	ppm	ASTM D5185m	>4	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	6	7
	Potassium	ppm	ASTM D5185m	>20	0	<1	3
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.2	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.0	22.2
	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	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	3	0
	Boron	ppm	ASTM D5185m		191	219	234
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		<1	0	4
	Molybdenum	ppm	ASTM D5185m		223	213	271
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		799	753	789
	Calcium	ppm	ASTM D5185m		1529	1883	1422
	Phosphorus	ppm	ASTM D5185m		907	976	847
	Zinc	ppm	ASTM D5185m		1072	1184	1111
	Sulfur	ppm	ASTM D5185m		3393	3322	3417
	Oxidation	Abs/.1mm	*ASTM D7414		17.7	15.9	17.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.8	8.7	8.6
		~C+	ACTM D44E	15 /	10.0	10.6	10.0

Visc @ 100°C cSt ASTM D445 15.4

12.6

13.8

13.2



Certificate 12367Test Package: CONST (Additional Tests: TBN)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

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