

## Machine Id JOHN DEERE 700L 1T0700LXVMF401903 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

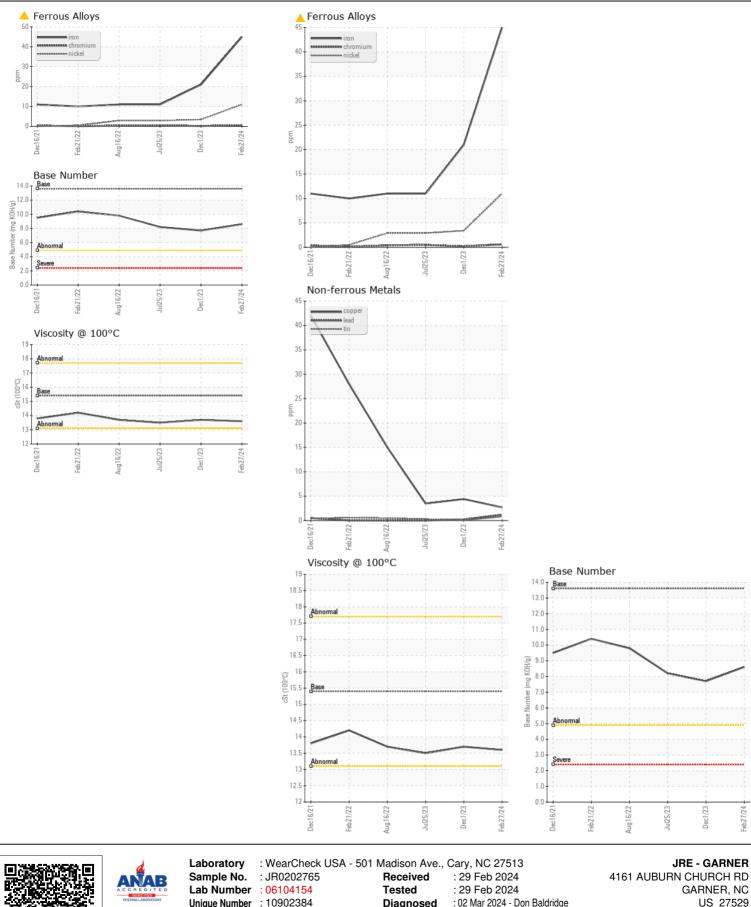
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0202765	JR0190725	JR0181269
	Sample Date		Client Info		27 Feb 2024	01 Dec 2023	25 Jul 2023
	Machine Age	hrs	Client Info		3032	2665	2066
	Oil Age	hrs	Client Info		966	2665	556
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	45	21	11
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<b>1</b> 1	3	3
	Titanium	ppm	ASTM D5185m		0	3	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	3
	Lead	ppm	ASTM D5185m		1	<1	0
	Copper	ppm	ASTM D5185m		3	4	4
	Tin	ppm	ASTM D5185m		<1	0	<1
	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		8	8	6 1
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method		<1 <1.0	3 <1.0	<1.0
	Water		WC Method		×1.0 NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 0	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7644	>3 >20	0.4 8.7	10.1	9.1
	Sulfation	Abs/.1mm	*ASTM D7624		22.0	24.9	22.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris		*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NORML	NORML	NORML	NOR
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
		Jouran	Violai	20.21			NLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	3
The PN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		177	104	238
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	3	0
	Molybdenum	ppm	ASTM D5185m		268	234	261
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		1010	784	873
	Calcium	ppm	ASTM D5185m		1710	1384	1583
	Phosphorus	ppm	ASTM D5185m		943	793	963
	Zinc	ppm	ASTM D5185m		1286	1032	1195
	Sulfur	ppm	ASTM D5185m		3395	3082	3776
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	20.5	17.3
	Base Number (BN)				8.6	7.7	8.2
	Vian C 10000	- 04	AOTA DAAS	15 4	40.0	10.7	10.5

Visc @ 100°C cSt ASTM D445 15.4

13.5

13.7

13.6



 Unique Number
 : 10902384
 Diagnosed
 : 02 Mar 2024 - Don Baldridge
 US 27529

 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: RALEIGH SHOP

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 seanbetts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (919)614-2260

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (919)779-5432

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