

Machine Id JOHN DEERE 748L 1dw748lbepl717202 Component Diesel Engine Fluid

CITGO CITGARD 700 15W40 (7 GAL)

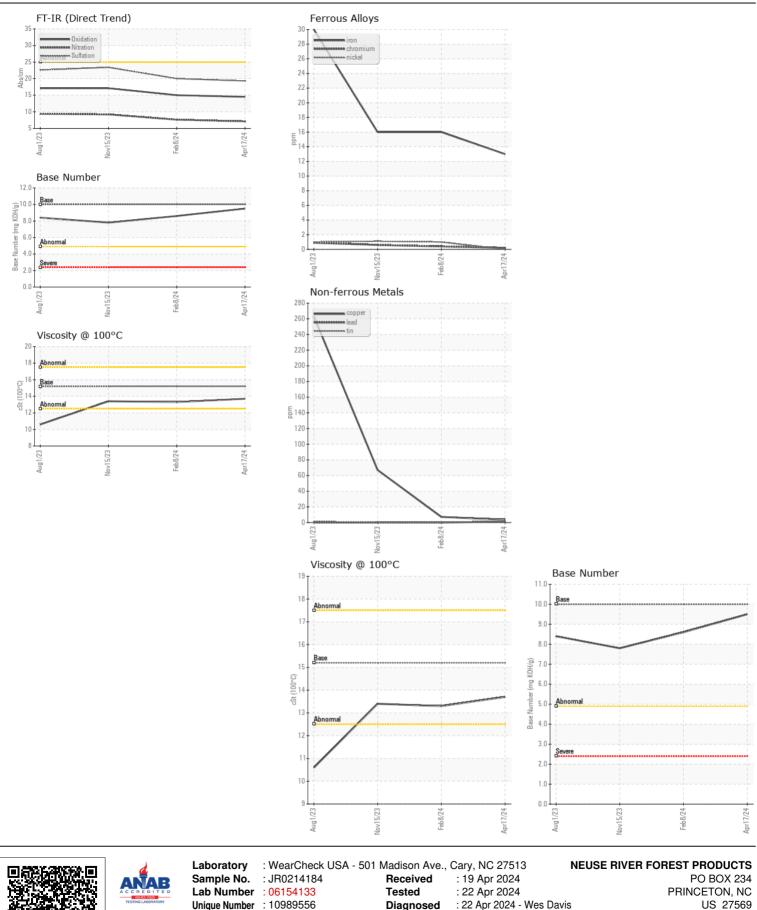
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214184	JR0200791	JR0186552
	Sample Date		Client Info		17 Apr 2024	08 Feb 2024	15 Nov 2023
	Machine Age	hrs	Client Info		2015	1712	1066
	Oil Age	hrs	Client Info		470	646	550
	Filter Age	hrs	Client Info		470	646	0
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	13	16	16
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	1	1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	1	<1	5
	Lead	ppm	ASTM D5185m	>26	1	0	0
	Copper	ppm	ASTM D5185m	>26	4	7	67
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	3	0	9
	Potassium	ppm	ASTM D5185m		0	0	3
	Fuel	le le	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624		7.1	7.6	9.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.0	23.4
	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	ppm	ASTM D5185m	>31	2	2	0
	Boron	ppm	ASTM D5185m	20	0	7	112
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	<1
	Molybdenum	ppm	ASTM D5185m	59	67	72	260
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m	783	1023	942	882
	Calcium	ppm	ASTM D5185m		1141	1055	1415
	Phosphorus	ppm	ASTM D5185m		1059	982	916
	Zinc	ppm	ASTM D5185m	1116	1234	1171	1106
	Sulfur	ppm	ASTM D5185m	2909	3636	2828	2733
	Oxidation	Abs/.1mm	*ASTM D7414		14.5	15.0	17.1
	Base Number (BN)		ASTM D2896		9.5	8.6	7.8
	Vies @ 10000	- 01		45.0	40 -	10.0	10.1

Visc @ 100°C cSt ASTM D445 15.2

13.4

13.3

13.7



 Unique Number
 : 10989556
 Diagnosed
 : 22 Apr 2024 - Wes Davis

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

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
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 * - 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)

D6:2012) T: Submitted By: Service Manager Page 2 of 2

Contact: Service Manager

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