

Machine Id JOHN DEERE 624L 1DW624LZPJF693839 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

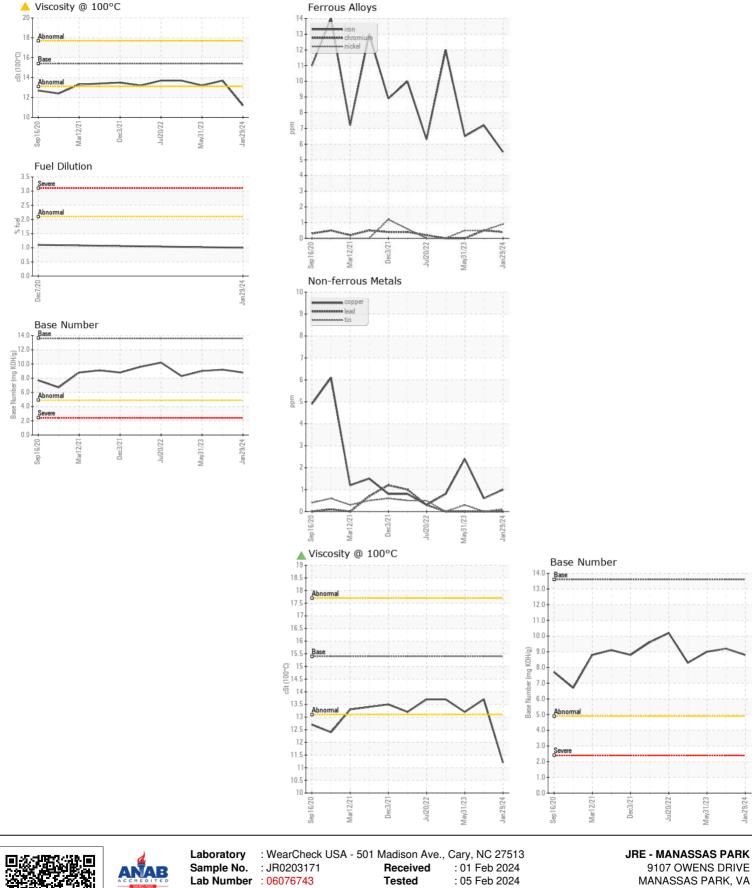
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0203171	JR0184082	JR0174709
	Sample Date		Client Info		29 Jan 2024	14 Sep 2023	31 May 2023
	Machine Age	hrs	Client Info		5668	5200	4707
	Oil Age	hrs	Client Info		468	493	448
	Filter Age	hrs	Client Info		0	493	448
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	6	7	6
	Chromium	ppm	ASTM D5185m	>11	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	2	3	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	<1	2
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	<u>_</u>	4	6	6
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		5	2	2
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D310311	>2.1	1.0	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.3	9.0	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		21.0	24.3	22.1
	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		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m	<b>_</b> 21	0	2	2
	Boron	ppm	ASTM D5185m	201	146	244	224
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm ppm	ASTM D5185m		156	271	228
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		485	806	805
	Calcium	ppm	ASTM D5185m		2065	1503	1461
	Phosphorus	ppm	ASTM D5185m		922	924	876
	Zinc		ASTM D5185m		922 1118	1123	1075
	Sulfur	ppm ppm	ASTM D5185m		3180	3604	3566
	Oxidation	Abs/.1mm	*ASTM D510511	>25	14.6	17.0	16.4
	Base Number (BN)				8.8	9.2	9.0
		ing itoriy	AOTH D2030	10.0	0.0	0.2	0.0

Visc @ 100°C cSt ASTM D445 15.4

13.7

**11.2** 

13.2



Unique Number : 10858834 : 05 Feb 2024 - Jonathan Hester Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DON VEST Certificate L2367 dvest@jamesriverequipment.com 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. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT

Page 2 of 2

US 20111