

## Machine Id JOHN DEERE 624L 1DW624LZCLF706869 Component Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

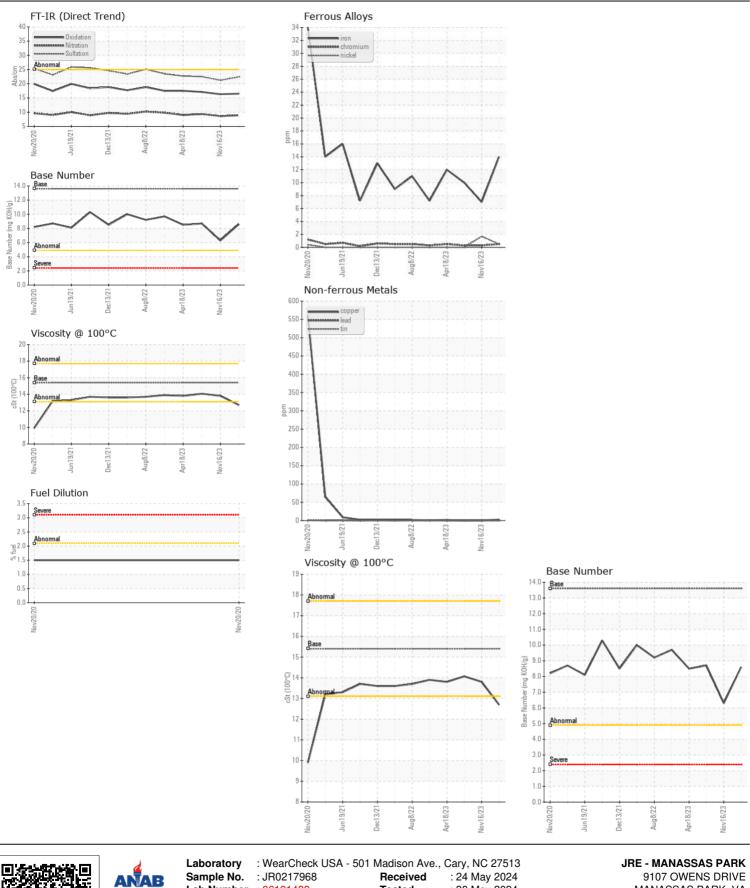
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217968	JR0192485	JR0182011
	Sample Date		Client Info		21 May 2024	16 Nov 2023	26 Jul 2023
	Machine Age	hrs	Client Info		5762	5245	4731
	Oil Age	hrs	Client Info		517	514	448
	Filter Age	hrs	Client Info		517	0	448
	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	7	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	2	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>31	4	5	3
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	2	<1	0
	Tin	ppm	ASTM D5185m	>4	0	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	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
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	4	2
	Fuel	%	ASTM D3524	>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	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.6	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	21.2	22.5
	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	NORM
	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	2
	Boron	ppm	ASTM D5185m		207	204	226
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
	Molybdenum	ppm	ASTM D5185m		222	239	254
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		761	798	871
	Calcium	ppm	ASTM D5185m		1740	1363	1490
	Phosphorus	ppm	ASTM D5185m		971	923	945
	Zinc	ppm	ASTM D5185m		1125	1119	1169
	Sulfur	ppm	ASTM D5185m		3704	3243	3935
	Oxidation	Abs/.1mm	*ASTM D7414		16.5	16.3	17.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	6.3	8.7
	Vian C 10000	- 01	AOTA D445	4 5 4	107	10.0	4407

Visc @ 100°C cSt ASTM D445 15.4

13.8

14.07

12.7



Lab Number : 06191488 Tested : 30 May 2024 MANASSAS PARK, VA Unique Number : 11048240 : 30 May 2024 - Sean Felton US 20111 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com \* - 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