

Machine Id JOHN DEERE 624 P 1DW624PAANLZ14651 Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (21 GAL)

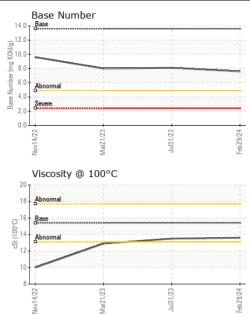
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (A	ZI GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0084555	JR0169017	JR0166407
	Sample Date		Client Info		29 Feb 2024	31 Jul 2023	21 Mar 2023
	Machine Age	hrs	Client Info		1967	1441	967
	Oil Age	hrs	Client Info		526	474	497
	Filter Age	hrs	Client Info		526	474	497
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	14	12	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	2	3
	Lead	ppm	ASTM D5185m	>26	<1	<1	<1
	Copper	ppm	ASTM D5185m	>26	5	22	2 05
	Tin	ppm	ASTM D5185m	>4	1	<1	<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 There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	7	6	7
	Potassium	ppm	ASTM D5185m	>20	1	2	1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.5	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	22.6	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	3	0
	Boron	ppm	ASTM D5185m		180	223	233
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		236	243	253
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		785	842	839
	Calcium	ppm	ASTM D5185m		1322	1506	1480
	Phosphorus	ppm	ASTM D5185m		845	907	917
	Zinc	ppm	ASTM D5185m		1057	1136	1139
	Sulfur	ppm	ASTM D5185m		2856	3588	2855
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.6	16.4
	Base Number (BN)		ASTM D2896	13.6	7.6	8.1	8.0
	Vier C 10000	- 01	AOTA DATE	45.4	40.0	10.5	10.0

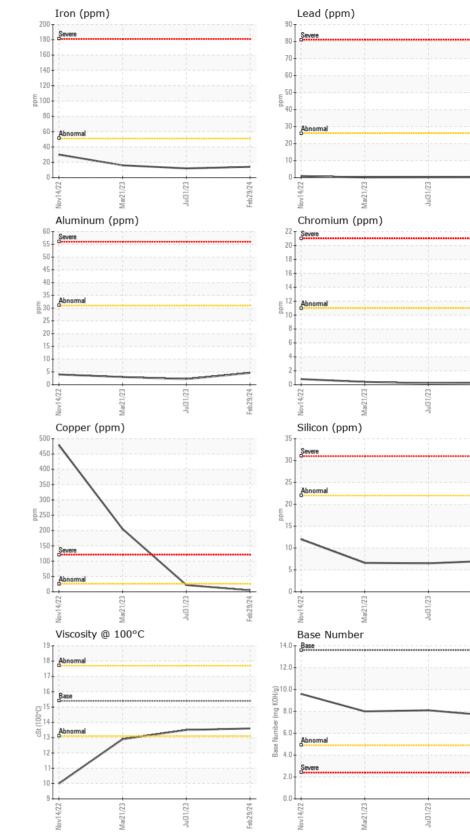
Visc @ 100°C cSt ASTM D445 15.4

13.5

13.6

12.9





B & S SITE DEVLEOPMENT Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0084555 Received 7800 PINEY BRANCH LANE Sample No. : 01 Mar 2024 Lab Number : 06105891 : 04 Mar 2024 BRISTOW, VA Tested Unique Number : 10909388 : 04 Mar 2024 - Wes Davis US 20136 Diagnosed Test Package : MOBCE (Additional Tests: TBN) Contact: DANNY HUFF Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dhuff@bandssite.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (540)270-3203 F: (703)753-0605 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: BSSWAR [WUSCAR] 06105891 (Generated: 03/04/2024 07:29:10) Rev: 1

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Submitted By: TECHNICIAN ACCOUNT

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