WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

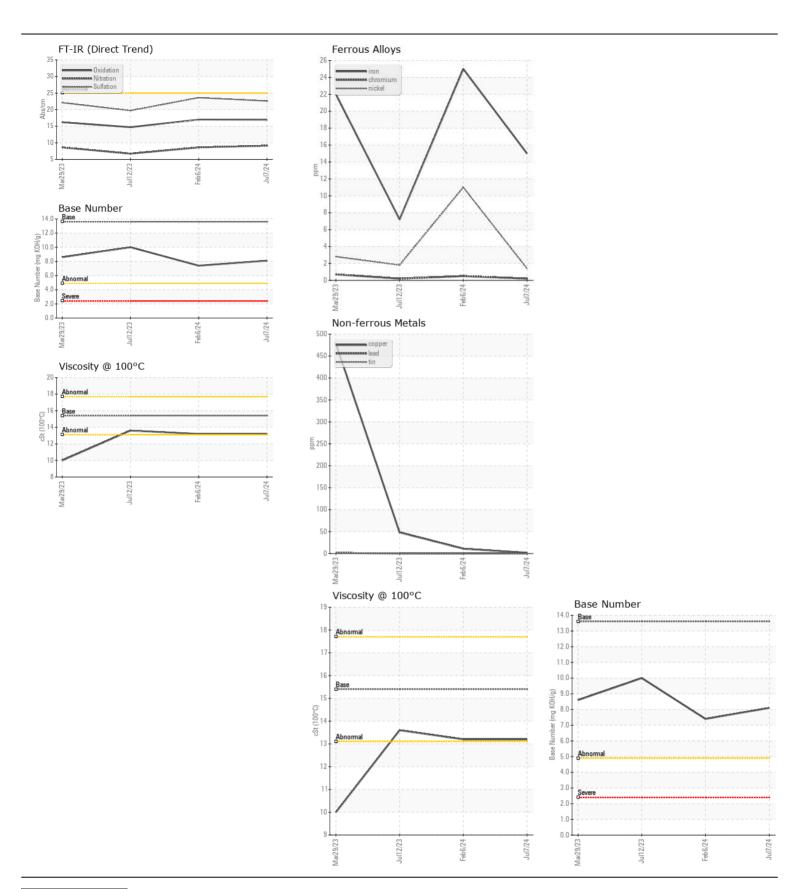
Machine Id

## JOHN DEERE 624P 1DW624PAPNLZ15906

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0219826	JR0198324	JR0170993
	Sample Date		Client Info		07 Jul 2024	06 Feb 2024	12 Jul 2023
	Machine Age	hrs	Client Info		1545	1065	493
	Oil Age	hrs	Client Info		480	572	493
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>51	15	25	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	<u> 1</u> 1	2
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	5	2
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	11	48
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION						_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	7	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.6	6.7
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	23.6	19.7
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	3	2
	Boron	ppm	ASTM D5185m		183	189	333
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	<1
	Molybdenum	ppm	ASTM D5185m		251	246	267
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		848	783	933
	Calcium	ppm	ASTM D5185m		1569	1275	1587
	Phosphorus	ppm	ASTM D5185m		956	861	1015
	Zinc	ppm	ASTM D5185m		1135	1059	1209
	Sulfur	ppm	ASTM D5185m		3527	2852	4130
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.0	14.7
	Base Number (BN)				8.1	7.4	10.0
		0 9					





Certificate L2367

Laboratory Sample No.

Lab Number : 06231273

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0219826

Unique Number : 11114766 Test Package : CONST ( Additional Tests: TBN )

Received : 09 Jul 2024 **Tested** : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Wes Davis 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

JRE - CHARLOTTE

T: (704)597-0211

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198