

## JOHN DEERE 624 P 1DW624PAAPLX19586

Diesel Engine

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

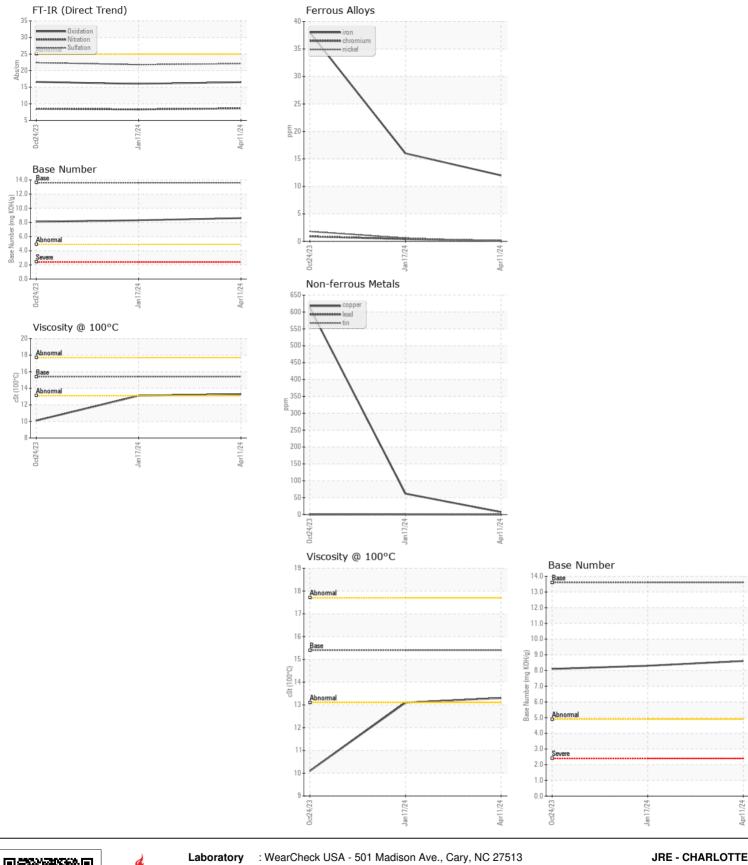
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (*	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0206260	JR0198493	JR0187972
	Sample Date		Client Info		11 Apr 2024	17 Jan 2024	24 Oct 2023
	Machine Age	hrs	Client Info		1574	1108	636
	Oil Age	hrs	Client Info		466	472	636
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed ABNORMAL	Changed ABNORMAL
	Sample Status					ADNONIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>51	12	16	38
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	2
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	4
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		7	▲ 62	<b>6</b> 12
	Tin	ppm	ASTM D5185m	>4	<1	<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
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	8	14
There is an indication of any contemportion in the cill	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	0.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.3	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	21.8	22.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	7
	Boron	ppm	ASTM D5185m		269	221	169
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		<1	<1	8
	Molybdenum	ppm	ASTM D5185m		272	264	266
	Manganese	ppm	ASTM D5185m		<1	<1	5
	Magnesium	ppm	ASTM D5185m		901	917	770
	Calcium	ppm	ASTM D5185m		1486	1463	1253
	Phosphorus	ppm	ASTM D5185m		1033	974	906
	Zinc	ppm	ASTM D5185m		1176	1190	978
	Sulfur	ppm	ASTM D5185m		3717	3230	2407
	Oxidation	Abs/.1mm	*ASTM D7414		16.5	16.0	16.6
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	8.3	8.1

Visc @ 100°C cSt ASTM D445 15.4

13.1

0.1

13.3



**JRE - CHARLOTTE** Sample No. : JR0206260 Received 9550 STATESVILLE ROAD : 15 Apr 2024 Lab Number : 06149287 Tested : 16 Apr 2024 CHARLOTTE, NC Unique Number : 10979365 Diagnosed : 16 Apr 2024 - Wes Davis US 28269 Test Package : CONST (Additional Tests: TBN) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2