

Area



[W52633 ADVANSIX] **JOHN DEERE 824K 1DW824KXPDE655823 Diesel Engine** 

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0224942	JR0199541	JR0165985
	Sample Date		Client Info		19 Jun 2024	05 Apr 2024	17 Jan 2024
	Machine Age	hrs	Client Info		15680	15291	14800
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	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	13	15	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	1
	Nickel	ppm	ASTM D5185m		<1	1	1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		8	8	14
	Lead	ppm	ASTM D5185m		3	5	3
	Copper	ppm	ASTM D5185m		9	8	6
	Tin	ppm	ASTM D5185m		1	<1	1
	Vanadium	ppm	ASTM D5185m	21	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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CONTAMINATION	Silicon	ppm	ASTM D5185m		7	6	10
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	2	4
	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		1.1	1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	22.3	21.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	7	4	7
	Boron	ppm	ASTM D5185m		144	156	191
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	0
	Molybdenum	ppm	ASTM D5185m		201	206	244
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		697	805	1015
	Calcium	ppm	ASTM D5185m		1487	1404	1485
	Phosphorus	ppm	ASTM D5185m		982	938	1118
	Zinc	ppm	ASTM D5185m		1135	1085	1322
	Sulfur	ppm	ASTM D5185m		3598	3534	4084
	Oxidation	Abs/.1mm	*ASTM D310311	>25	14.4	15.8	15.2
	Base Number (BN)				8.3	8.6	8.3
		niy Kony	ASTN D2030	10.0	0.5	10.4	10.5

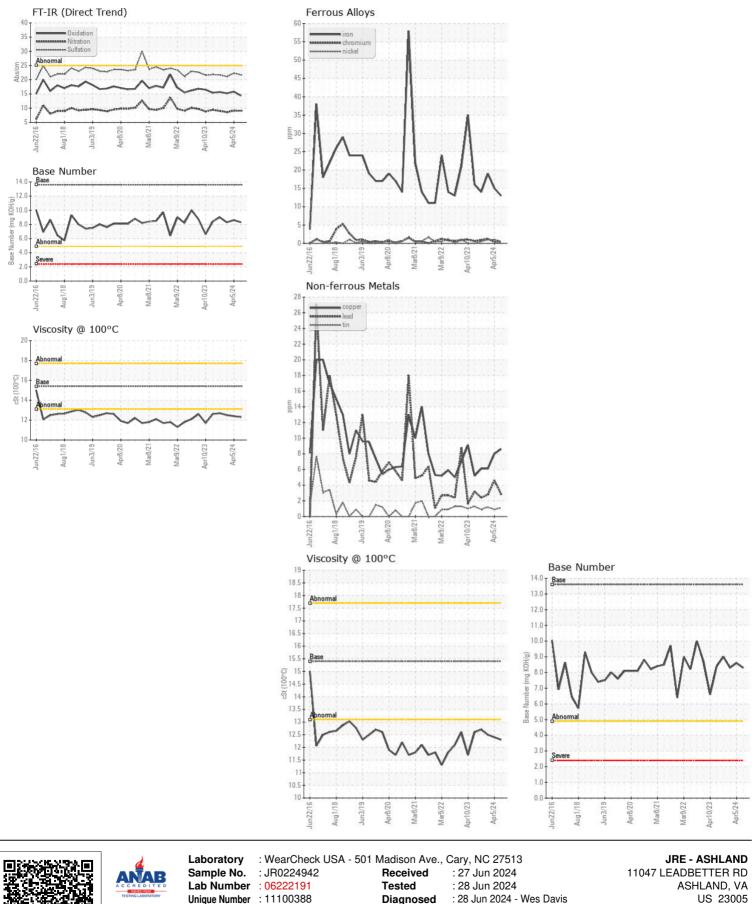
Visc @ 100°C cSt

ASTM D445 15.4

12.4

12.5

12.3



 Unique Number
 : 11100388
 Diagnosed
 : 28 Jun 2024 - Wes Davis
 US 23005

 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: DAVID ZIEG

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 dzieg@jamesriverequipment.com

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (804)798-6001

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (804)798-0292

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Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2