

JOHN DEERE 444 P 1DW444PAENLZ14543

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 30 II 13W40 (*	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0179698	JR0199641	JR0200262
	Sample Date		Client Info		24 Apr 2024	07 Mar 2024	04 Jan 2024
	Machine Age	hrs	Client Info		3713	3460	3225
	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	2	6	6
	Chromium	ppm	ASTM D5185m	>11	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	4	2
	Lead	ppm	ASTM D5185m	>26	0	<1	<1
	Copper	ppm	ASTM D5185m	>26	0	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	7	6
	Potassium	ppm	ASTM D5185m		0	2	<1
There is no indication of any contamination in the oil.	Fuel	lele	WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.0	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.5	21.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	<1	1
	Boron	ppm	ASTM D5185m		167	256	245
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	0	0
	Molybdenum	ppm	ASTM D5185m		172	251	253
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		456	781	852
	Calcium	ppm	ASTM D5185m		1834	1343	1437
	Phosphorus	ppm	ASTM D5185m		1045	888	912
	Zinc	ppm	ASTM D5185m		1157	1032	1122
	Sulfur	ppm	ASTM D5185m		3980	3121	3216
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.5	16.0
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.5	9.2	8.8
		<u> </u>	LOTH DAYS			10.0	10.0

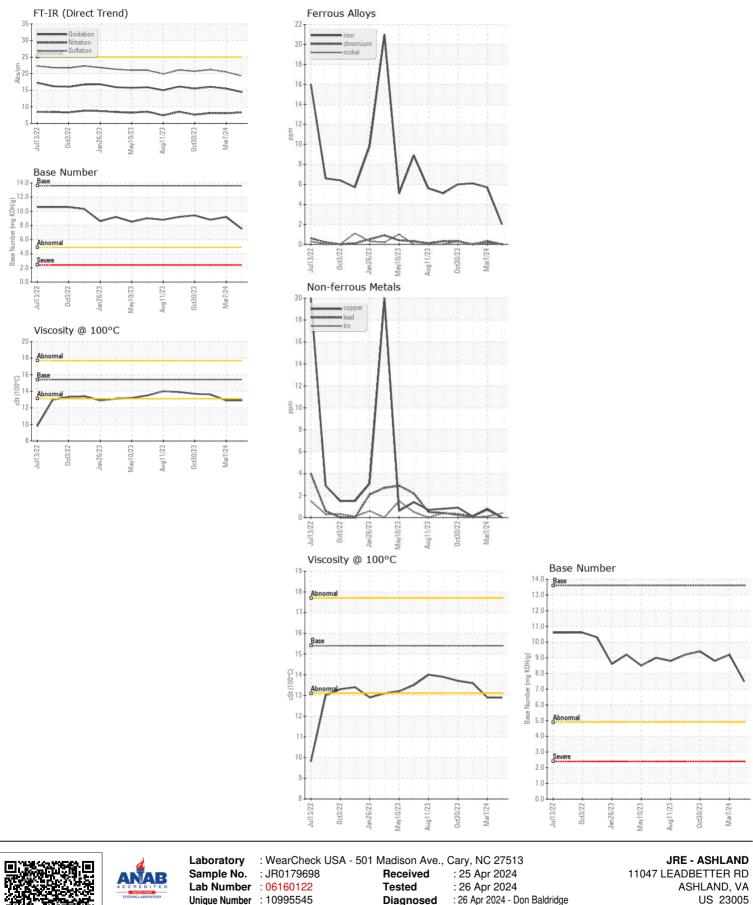
Visc @ 100°C cSt

ASTM D445 15.4

12.9

13.6

12.9



Unique Number : 10995545 Diagnosed : 26 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: TBN) Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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