WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

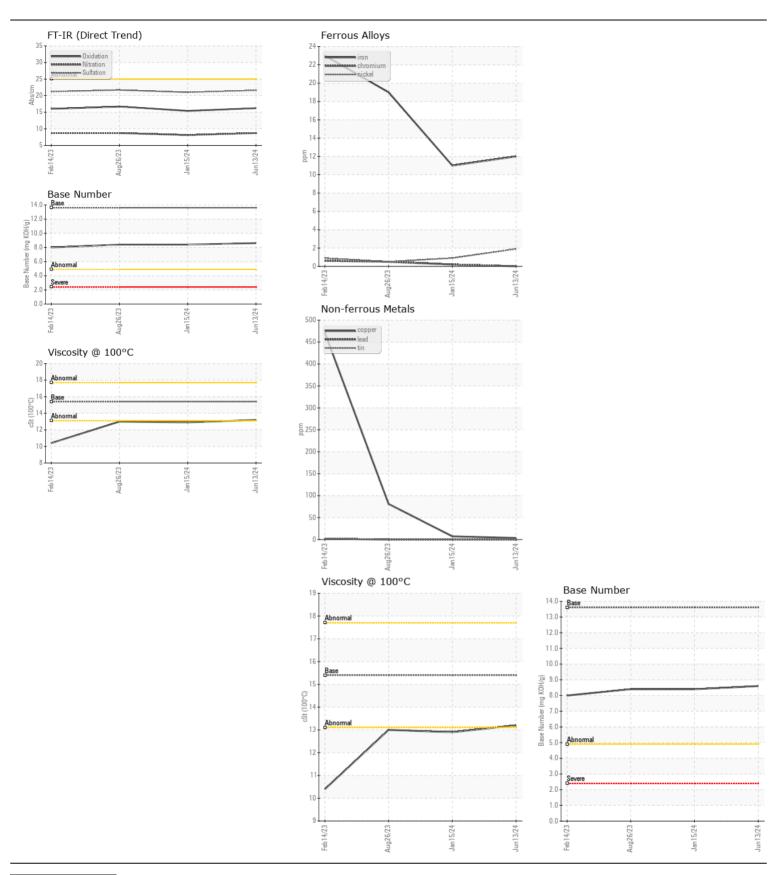
Machine Id

JOHN DEERE 544P 1DW544PAVNLZ15187

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (22 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0213981	JR0197622	JR017657
	Sample Date		Client Info		13 Jun 2024	15 Jan 2024	26 Aug 202
	Machine Age	hrs	Client Info		1945	1458	1005
	Oil Age	hrs	Client Info		487	453	511
	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	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	12	11	19
WEAT	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel		ASTM D5185m		2	<1	<1
	Titanium	ppm	ASTM D5185m	>0	0	0	0
	Silver		ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m			2	4
		ppm			5		
	Lead	ppm	ASTM D5185m		0	0 7	0
	Copper	ppm	ASTM D5185m		4	-	<u>A</u> 81
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1 NONE	<1 NONE	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	<1	<1
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	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	8.7	8.1	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	21.0	21.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	2	4
LOID CONDITION	Boron	ppm	ASTM D5185m		206	223	231
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		224	226	233
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		794	791	829
	Calcium	ppm	ASTM D5185m		1424	1575	1502
	Phosphorus	ppm	ASTM D5185m		933	882	935
	Zinc	ppm	ASTM D5185m		1087	1118	1116
	Sulfur	ppm	ASTM D5185m		3476	3041	3523
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.4	16.7
	UNIGGUUI	1100/.111111	//O I W D/ 414	/20	10.2	10.7	10.7
	Base Number (BN)	ma KOH/a	ASTM DOROG	13.6	8.6	8.4	8.4







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0213981 Lab Number : 06211427

Unique Number : 11084291

Received **Tested**

: 17 Jun 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800 Contact: GREENVILLE SHOP

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

christopher.martin@jamesriverequipment.com T:

* - 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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