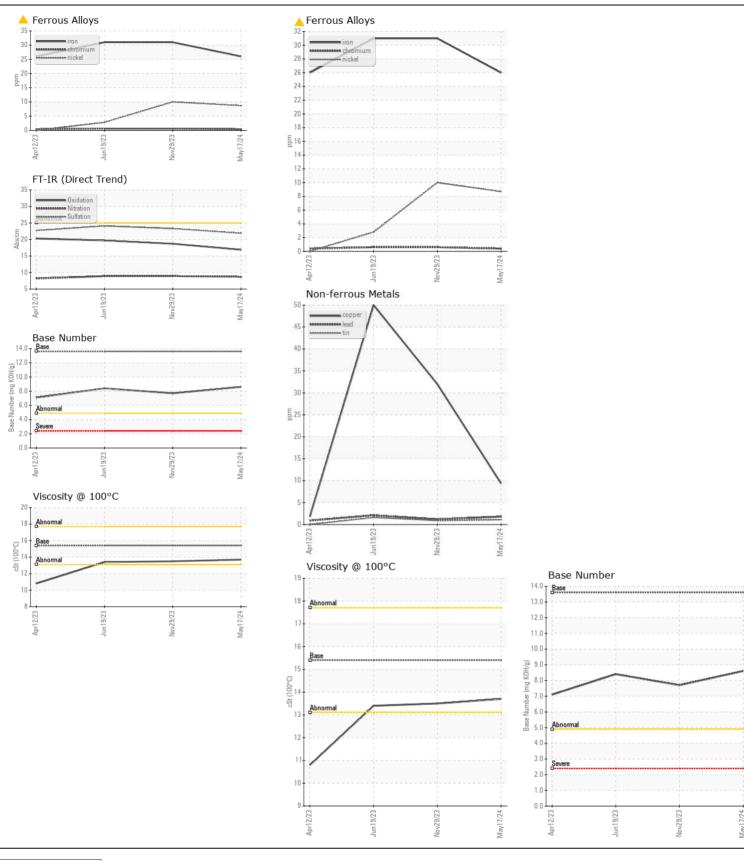
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

Machine Id

JOHN DEERE 350P 1FF350PALNF000408

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217914	JR0184620	JR017631
	Sample Date		Client Info		17 May 2024	29 Nov 2023	19 Jun 202
	Machine Age	hrs	Client Info		1908	1521	943
	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				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	26	31	31
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Valve wear is indicated.	Nickel	ppm	ASTM D5185m		<u>^</u> 9	<u> </u>	3
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	~3	<1	<1	0
	Aluminum	ppm	ASTM D5185m		5	4	2
	Lead	ppm	ASTM D5185m		2	1	2
	Copper	ppm	ASTM D5185m		9	32	50
	Tin	ppm	ASTM D5185m		1	<1	2
	Vanadium	ppm	ASTM D5185m	77	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	2
	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	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		21.9	23.3	24.1
	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	NORN
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	0	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		247	146	189
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	3	3
	Molybdenum	ppm	ASTM D5185m		258	230	260
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		855	676	778
	Calcium	ppm	ASTM D5185m		1452	1533	1400
	Phosphorus	ppm	ASTM D5185m		908	753	809
	Zinc	ppm	ASTM D5185m		1091	1004	1024
	Sulfur	ppm	ASTM D5185m		3415	3965	3094
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	18.7	19.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	7.7	8.4
				15.4			







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06187056

: JR0217914

Tested Unique Number : 11043808 Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 21 May 2024 : 23 May 2024

: 23 May 2024 - Sean Felton

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com

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)

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