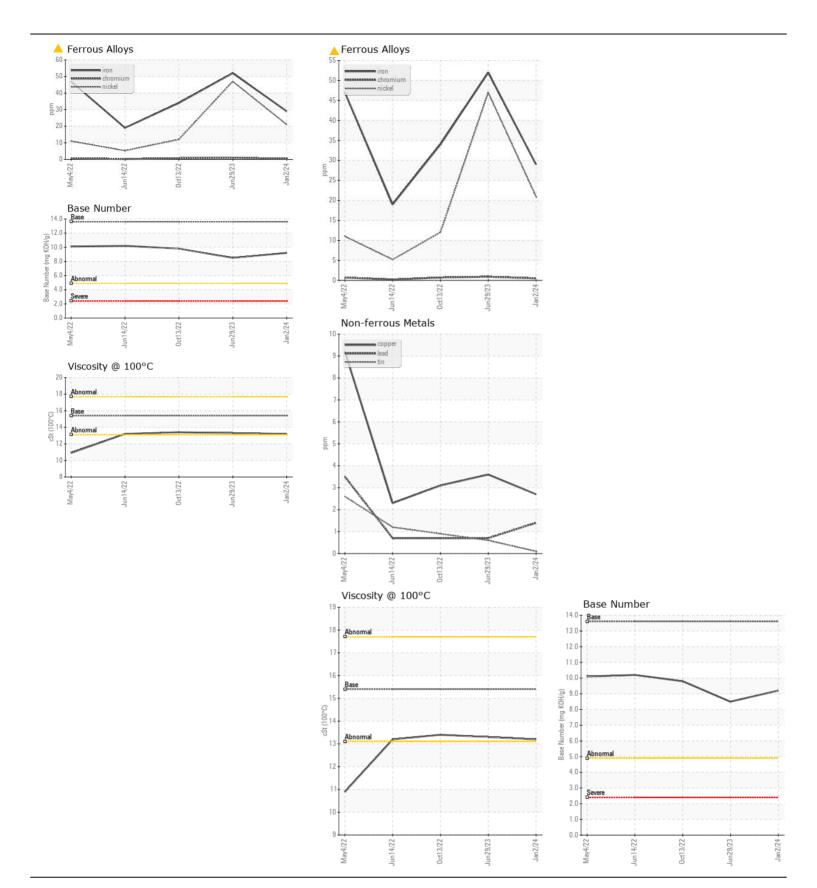
WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 350G 1FF350GXAMF815211

Diesel Engine JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LITTIUAUTI	JR0189093	JR0171412	,
	Sample Date		Client Info		02 Jan 2024	29 Jun 2023	13 Oct 202
	Machine Age	hrs	Client Info		8490	1445	8490
	Oil Age	hrs	Client Info		0	8490	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Olichi illio		ABNORMAL	ABNORMAL	Ü
WEAR	Iron	nnm	ASTM D5185m	 . 51	20	<u>^</u> 52	2/
WEAR	Iron	ppm			29		34
The nickel level has decreased, but is still abnormal. Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<u>^</u> 21	<u>4</u> 7	12
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		5	4	3
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m		3	4	3
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	10	7
	Potassium	ppm	ASTM D5185m	>20	<1	3	2
There is no indication of any contamination in the oil.	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	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	8.6	8.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	22.5	24.0
	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		*Visual	>0.21	NEG	NEG	NEG
EL LUD CONDITION						,	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	<1	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		204	191	177
	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m		230	257	243
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m		858	768	757
	Calcium	ppm	ASTM D5185m		1369	1474	1416
	Phosphorus	ppm	ASTM D5185m		884	872	860
	Zinc	ppm	ASTM D5185m		1118	1068	1052
	Sulfur	ppm	ASTM D5185m		3161	3250	3301
	Oxidation	Abs/.1mm	*ASTM D7414		15.2	17.5	18.3
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2	8.5	9.8
	Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	13.4







Laboratory Sample No. Lab Number **Unique Number**

: JR0189093 : 06059118

: 10830500

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 12 Jan 2024 : 15 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com T: (704)597-0211

* - 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) JRE - CHARLOTTE

CHARLOTTE, NC

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US 28269

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