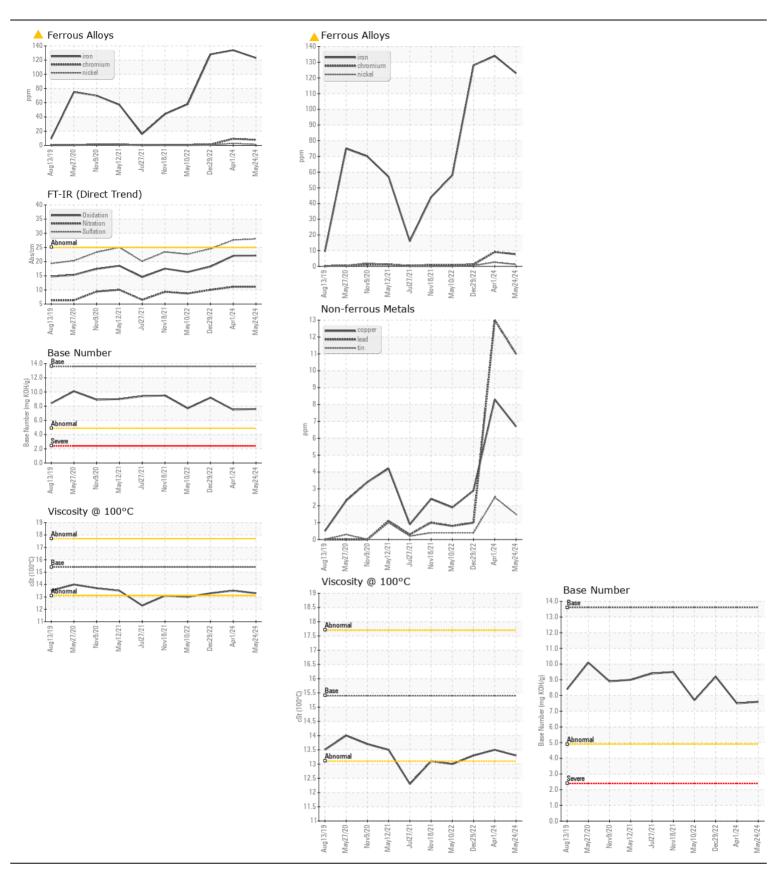
**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL NORMAL** 

Machine Id

## JOHN DEERE 1FF350GXCHF812280

**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		JR0195488	JR0208318	JR015764
	Sample Date		Client Info		24 May 2024	01 Apr 2024	29 Dec 202
	Machine Age	hrs	Client Info		6316	6224	4991
	Oil Age	hrs	Client Info		0	0	4991
	Filter Age	hrs	Client Info		0	0	4991
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	Iron	nnm	ASTM D5185m	 . 51	<u> </u>	<u></u> 134	<u>^</u> 128
WEAT	Chromium	ppm	ASTM D5185m		8	9	1
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	3	<1
	Titanium	ppm	ASTM D5185m		- <1	1	<1
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	8	5
	Lead	ppm	ASTM D5185m		11	13	1
	Copper	ppm	ASTM D5185m		7	8	3
	Tin	ppm	ASTM D5185m		2	2	<1
	Vanadium	ppm	ASTM D5185m		- <1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.00		AOTA DEADE		40	40	40
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		10 3	13 5	10
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.9	0.9	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.1	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		28.0	27.6	24.5
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	0.2%	NEG
THUD CONDITION	Cadima		ACTM DE10E	04			4
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	5	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		10	24	113
	Barium	ppm	ASTM D5185m ASTM D5185m		0 223	0 268	0 254
	Molybdenum Manganese	ppm	ASTM D5185m		223	200	1
	_	ppm	ASTM D5185m		719	826	811
	Magnesium Calcium	ppm	ASTM D5165III		1383	1546	1480
	Phosphorus	ppm	ASTM D5185m		773	927	857
	Zinc		ASTM D5185m		917	1097	1076
	Sulfur	ppm	ASTM D5185m		2678	2965	3565
	Oxidation	Abs/.1mm	*ASTM D7414	<b>&gt;25</b>	2076	2903	18.2
	Base Number (BN)		ASTM D2896		7.6	7.5	9.2
	Dasc Halliber (DIV)	my Normy	10 HVI D2030	10.0	7.0	7.5	٥.۷







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0195488 Lab Number : 06196102

**Tested** Unique Number : 11058225 Test Package : CONST (Additional Tests: TBN)

Received : 30 May 2024 : 31 May 2024

: 02 Jun 2024 - Don Baldridge Diagnosed

FITZGERALD EXCAVATING PO BOX 2168

WINCHESTER, VA US 22604

Contact: Service Manager

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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