WEAR CONTAMINATION **FLUID CONDITION**

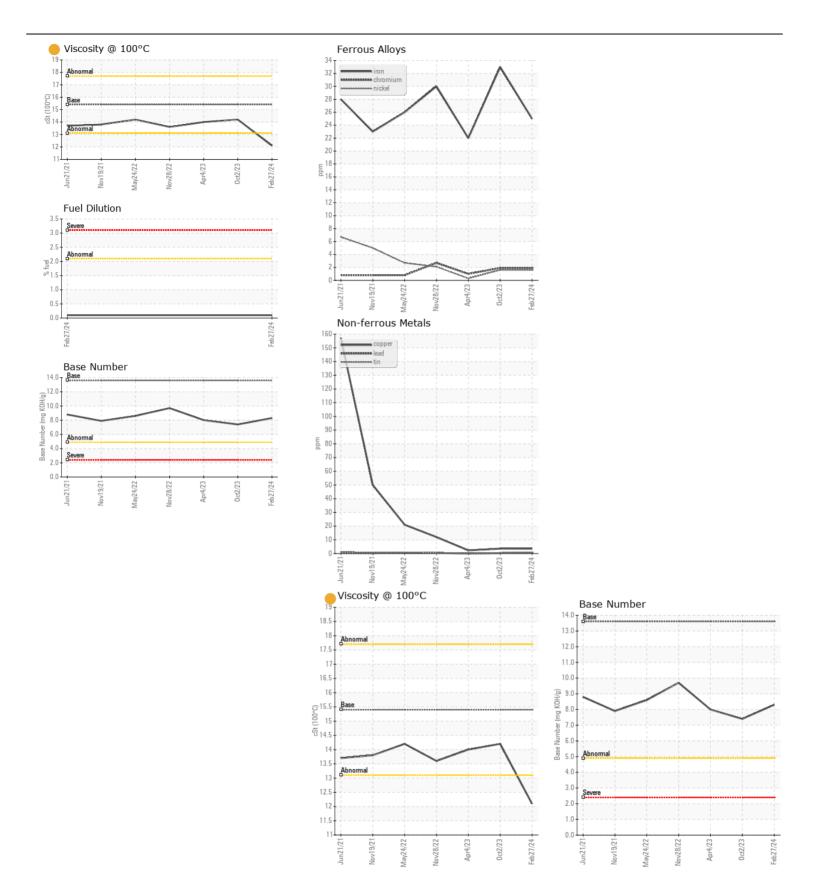
NORMAL NORMAL ATTENTION

[05W45125]

JOHN DEERE 1FF300GXALF731581

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIE SOMMENDATION	Sample Number	2 3	Client Info		JR0208530	JR0187520	JR016670
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		27 Feb 2024	02 Oct 2023	04 Apr 202
	Machine Age	hrs	Client Info		3963	3458	2951
	Oil Age	hrs	Client Info		505	507	2471
	Filter Age	hrs	Client Info		505	507	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>51	25	33	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	2	2	1
	Nickel	ppm	ASTM D5185m	>5	2	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	3	2
	Lead	ppm	ASTM D5185m	>26	<1	<1	0
	Copper	ppm	ASTM D5185m	>26	4	4	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 00	0	10	0
	Potassium	ppm	ASTM D5185m		8 2	2	9
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	ppm o/	ASTM D3163111		0.1	<1.0	<1.0
	Water	%	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	0/		. 2			
		%	*ASTM D7844 *ASTM D7624		0.5	0.6 9.1	0.5
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	8.4 22.4	23.3	9.5 22.2
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
			*Visual	NORML	NORML	NORML	NORM
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
<u></u>			Visuai	70.21			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	4	2
The obligation of the least of the land of	Boron	ppm	ASTM D5185m		78	114	145
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		151	277	227
	Manganese	ppm	ASTM D5185m		1	1	<1
	Magnesium	ppm	ASTM D5185m		452	835	657
	Calcium	ppm	ASTM D5185m		2042	1514	1537
	Phosphorus	ppm	ASTM D5185m		884	913	846
	Zinc	ppm	ASTM D5185m		1053	1160	1125
	Sulfur	ppm	ASTM D5185m		3190	3138	3314
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	17.1	16.5
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	7.4	8.0







Certificate L2367

Laboratory Sample No.

Lab Number : 06102707

Unique Number: 10900937

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0208530 Received : 28 Feb 2024 : 04 Mar 2024 **Tested**

: 04 Mar 2024 - Jonathan Hester Diagnosed Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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)

FITZGERALD EXCAVATING

PO BOX 2168 WINCHESTER, VA

US 22604

Contact: Service Manager

F:

T: