WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

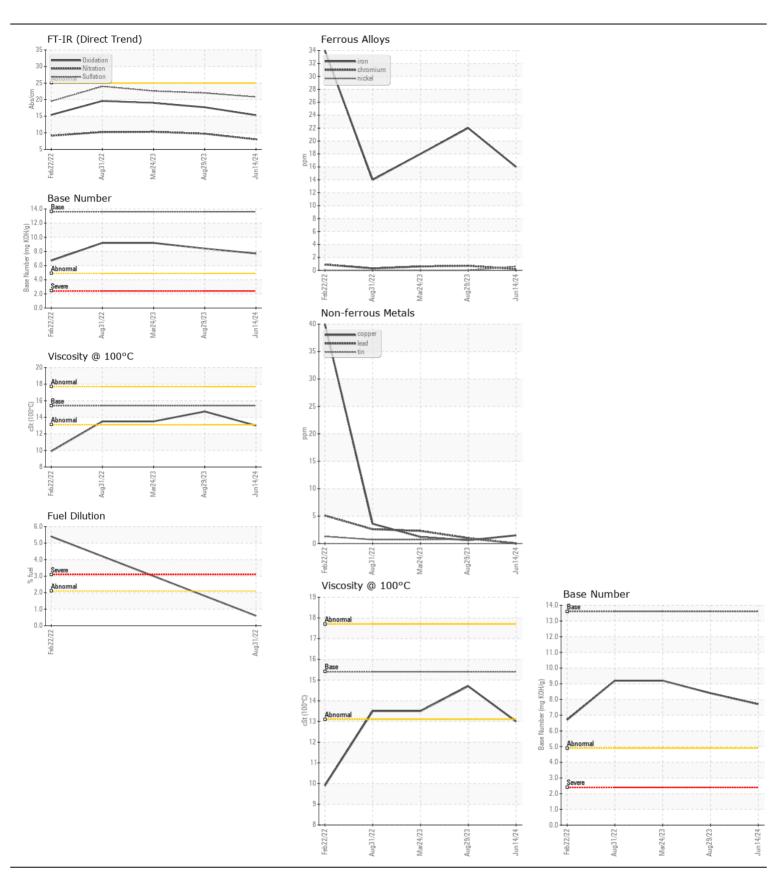
Machine Id

JOHN DEERE 50G 1FF050GXCMH294166

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0218661	JR0183892	JR0166360
Resample at the next service interval to monitor.	Sample Date		Client Info		14 Jun 2024	29 Aug 2023	24 Mar 2023
	Machine Age	hrs	Client Info		2446	1956	1484
	Oil Age	hrs	Client Info		490	0	1484
	Filter Age	hrs	Client Info		490	0	1484
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	16	22	18
	Chromium	ppm	ASTM D5185m		<1	 <1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	7	5
	Lead	ppm	ASTM D5185m		0	1	2
	Copper	ppm	ASTM D5185m		2	<1	1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m	77	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		14	16	16
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	4
	Fuel	%	ASTM D3524		<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	0.3
	Nitration	Abs/cm	*ASTM D7624		8.0	9.7	10.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.8	22.0	22.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	2
The DN very lating the sheet the even in a vitable all value in very single with the	Boron	ppm	ASTM D5185m		257	252	262
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	3
	Molybdenum	ppm	ASTM D5185m		132	262	248
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		479	874	787
	Calcium	ppm	ASTM D5185m		1585	1525	1417
	Phosphorus	ppm	ASTM D5185m		992	935	884
	Zinc	ppm	ASTM D5185m		1175	1183	1063
	Sulfur	ppm	ASTM D5185m		3619	3856	3073
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	17.7	19.0
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.4	9.2
				15.4		14.7	13.5







Certificate L2367

Laboratory Sample No.

Lab Number : 06211443 Unique Number : 11084307

: JR0218661

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

Received **Tested** Diagnosed

: 17 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, TBN)

US 20136 Contact: DANNY HUFF dhuff@bandssite.com

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE

T: (540)270-3203 F: (703)753-0605

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)

BRISTOW, VA