

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



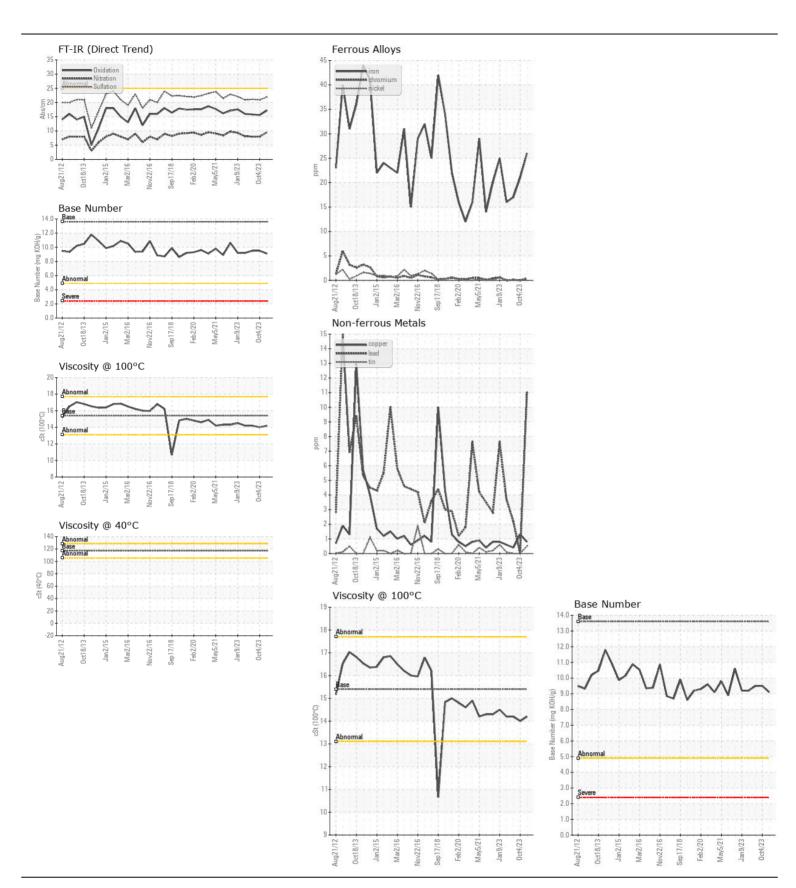
Machine Id

## JOHN DEERE 650H C9008668 (S/N T0650HX938193)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (20 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (20 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218707	JR0185106	JR0175823
	Sample Date		Client Info		05 Jun 2024	04 Oct 2023	08 Jun 2023
	Machine Age	hrs	Client Info		12798	12501	12328
	Oil Age	hrs	Client Info		297	173	126
	Filter Age	hrs	Client Info		297	173	126
	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	26	21	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	0	<1
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	4	2
	Lead	ppm	ASTM D5185m		11	0	2
	Copper	ppm	ASTM D5185m		<1	1	<1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	7	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	<1	2
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2 .	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		9.5	8.0	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		21.9	20.9	21.1
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	3	0
	Boron	ppm	ASTM D5185m		312	269	286
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		295	248	263
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		926	889	789
	Calcium	ppm	ASTM D5185m		1582	1452	1416
	Phosphorus	ppm	ASTM D5185m		903	930	894
	Zinc	ppm	ASTM D5185m		1198	1144	1046
	Sulfur	ppm	ASTM D5185m		3547	3147	3244
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.6	15.8
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.1	9.5	9.5
	Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	14.2







Certificate L2367

Report Id: TENCAN [WUSCAR] 06209921 (Generated: 06/17/2024 15:08:07) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218707 Lab Number : 06209921

Received **Tested** 

Unique Number : 11082785 Diagnosed : 17 Jun 2024 - Don Baldridge Test Package : CONST ( Additional Tests: KV40, TBN )

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 14 Jun 2024

: 17 Jun 2024

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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