Machine Id

WEAR CONTAMINATION FLUID CONDITION

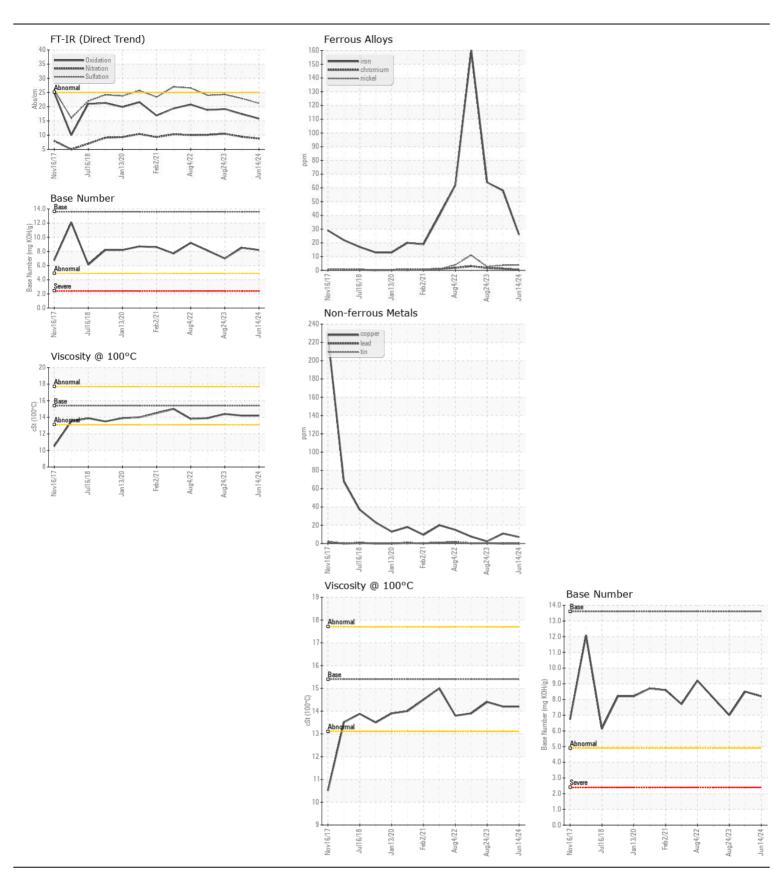
NORMAL NORMAL

**JOHN DEERE 700K 1T0700KXTHF315362** 

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0222504	JR0197450	JR018632
	Sample Date		Client Info		14 Jun 2024	07 Dec 2023	24 Aug 202
	Machine Age	hrs	Client Info		8655	7805	7373
	Oil Age	hrs	Client Info		850	432	759
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	26	<u>\$ 58</u>	<u></u> 64
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	2
	Nickel	ppm	ASTM D5185m		4	4	3
	Titanium	ppm	ASTM D5185m		<1	<1	3
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	5	10
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		7	11	2
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m	77	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai	INOINE	HONE		NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	9	14
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	<1	2
	Fuel		WC Method		<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	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.4	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	22.9	24.3
	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	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	1	4
	Boron	ppm	ASTM D5185m		147	178	96
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	0
	Molybdenum	ppm	ASTM D5185m		187	237	254
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		572	800	870
	Calcium	ppm	ASTM D5185m		1690	1451	1749
	Phosphorus	ppm	ASTM D5185m		934	900	1008
	Zinc	ppm	ASTM D5185m		1134	1157	1256
	Sulfur	ppm	ASTM D5185m		3624	2976	3719
	Oxidation	Abs/.1mm	*ASTM D3163111	<b>&gt;25</b>	3624 15.8	17.4	19.2
	Base Number (BN)				8.2	8.5	7.0
	Dase Mullipel (DIN)	IIIg KUT/g					
	Visc @ 100°C	cSt	ASTM D445	15 /	14.2	14.2	14.4







Certificate L2367

Laboratory Sample No.

Lab Number : 06211433 Unique Number : 11084297

: JR0222504

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

Received **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

: 17 Jun 2024

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)

MONTAGUE DEVELOPMENT

10305 PENNY RD RALEIGH, NC US 27606

Contact: Mark Fielding

T:

F: