WEAR CONTAMINATION FLUID CONDITION

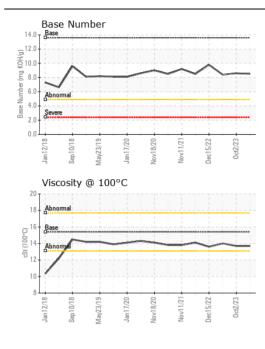
NORMAL NORMAL NORMAL

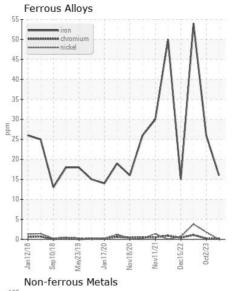
JOHN DEERE 700K 1T0700KXTHF317452

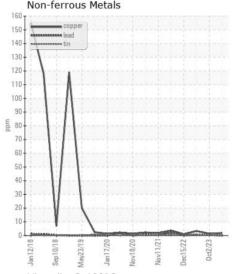
Diesel Engine

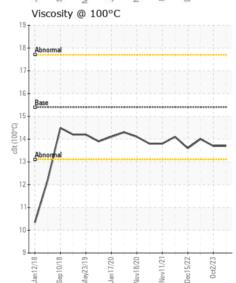
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

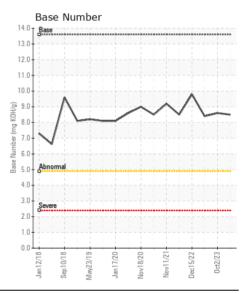
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMIETES/TISIT	Sample Number		Client Info		JR0203540		JR0171711
Resample at the next service interval to monitor.	Sample Date		Client Info		18 Feb 2024	02 Oct 2023	16 Jun 2023
	Machine Age	hrs	Client Info		8447	8010	7595
	Oil Age	hrs	Client Info		8010	415	7595
	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	NORMAL	MARGINAL
WEAR	Iron	ppm	ASTM D5185m	<u></u>	16	26	<u>^</u> 54
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	1
	Nickel	ppm	ASTM D5185m		0	2	4
	Titanium	ppm	ASTM D5185m	70	<1	0	<1
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	7
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	1	3
	Tin	ppm		>4	0	<1	<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	Silicon	ppm	ASTM D5185m	>22	7	6	12
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	4	4
	Fuel		WC Method	>2.1	<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	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.9	9.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.8	23.6
	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	3	5	6
	Boron	ppm	ASTM D5185m		213	221	306
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		<1	0	4
	Molybdenum	ppm	ASTM D5185m		251	248	396
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		881	851	1281
	Calcium	ppm	ASTM D5185m		1511	1570	2343
	Phosphorus	ppm	ASTM D5185m		904	905	1397
	Zinc	ppm	ASTM D5185m		1098	1170	1745
	Sulfur	ppm	ASTM D5185m		3013	2883	5230
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.5	18.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.6	8.4
	Visc @ 100°C	cSt	ASTM D445		13.7	13.7	14.0













Certificate L2367

Laboratory Sample No. **Lab Number** : 06098892

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0203540 Unique Number : 10897122

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

Test Package : CONST (Additional Tests: TBN)

Received Tested

: 23 Feb 2024 : 26 Feb 2024 Diagnosed

: 26 Feb 2024 - Wes Davis

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

myoung@jamesriverequipment.com T: (704)597-0211

* - 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)

F: (704)596-6198