WEAR CONTAMINATION FLUID CONDITION

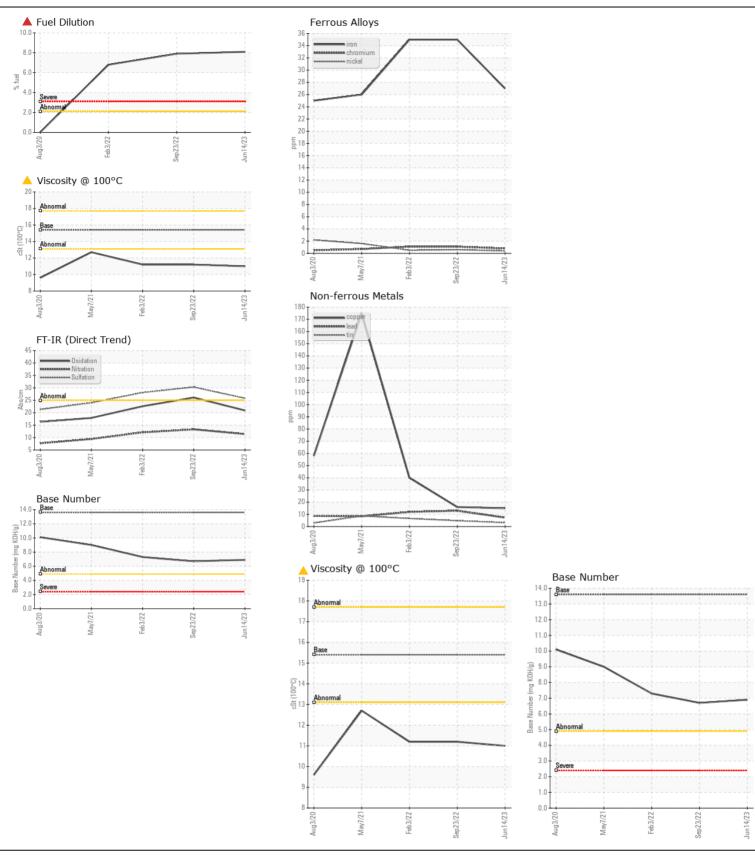
NORMAL SEVERE ABNORMAL

[CONSERVIT]

JOHN DEERE 844K 1DW844KCTJF691653

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIIIU/ADII	JR0169602	JR0137554	JR0111976
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		14 Jun 2023	23 Sep 2022	03 Feb 2022
	Machine Age	hrs	Client Info		2006	1528	1018
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	_
WEAR	Iron	ppm	ASTM D5185m	>51	27	35	35
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>31	6	6	8
	Lead	ppm	ASTM D5185m	>26	7	13	12
	Copper	ppm	ASTM D5185m	>26	15	16	40
	Tin	ppm	ASTM D5185m	>4	3	5	7
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	~22	8	9	7
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	4	10
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524		4 8.1	<u>→</u> 7.9	▲ 6.8
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.5	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	13.3	12.1
	Sulfation	Abs/.1mm	*ASTM D7415		25.8	30.3	28.1
	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		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		3	6	4
I LUID CONDITION	Boron	ppm	ASTM D5185m	201	ა 57	47	51
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		3	0	0
	Molybdenum	ppm	ASTM D5185m		3 234	222	217
	Manganese	ppm					
		ppm	ASTM D5185m ASTM D5185m		<1 707	1 797	721
	Magnesium Calcium	ppm	ASTM D5185m		707 1258	727 1369	731 1544
	Phosphorus	ppm	ASTM D5185m				792
	Zinc	ppm			709 889	716	
		ppm	ASTM D5185m ASTM D5185m			919	989
	Sulfur	ppm Abo/1mm		- 2F	2796	3192	2540
	Oxidation				20.9	26.1	22.6
	Base Number (BN)		ASTM D2896		6.9	6.7	7.3
	Visc @ 100°C	cSt	ASTM D445	15.4	(<u> </u>	<u> </u>	<u> </u>







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0169602 Lab Number : 05877839

Unique Number : 10522942

Received **Tested**

: 20 Jun 2023 : 21 Jun 2023 Diagnosed

: 21 Jun 2023 - Wes Davis

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA

US 22656-1761 Contact: PHIL DAUGHERTY

Test Package : CONST (Additional Tests: 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.

pdaugherty@jamesriverequipment.com T: x:

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

F: (540)693-2588 Contact/Location: PHIL DAUGHERTY - JAMWIN