WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

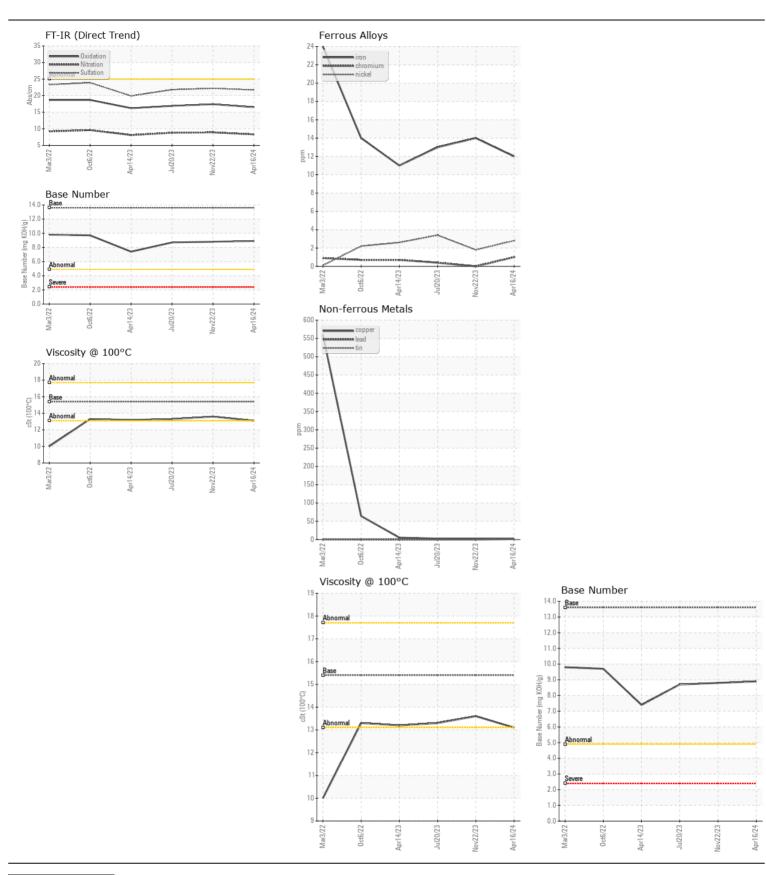
Machine Id

JOHN DEERE 700L 1T0700LXPNF412363

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		JR0210659	JR0184340	JR017003
	Sample Date		Client Info		16 Apr 2024	22 Nov 2023	20 Jul 2023
	Machine Age	hrs	Client Info		3000	2539	1995
	Oil Age	hrs	Client Info		2539	0	0
	Filter Age	hrs	Client Info		2539	0	0
	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	12	14	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	0	<1
	Nickel	ppm	ASTM D5185m		3	2	3
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	4	3
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m		2	2	2
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-22	8	6	6
CONTAININATION	Potassium	ppm	ASTM D5185m		2	2	<1
There is no indication of any contamination in the oil.	Fuel	ррт	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		8.3	8.9	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		21.7	22.2	21.8
	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
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	0	3
LOID CONDITION	Boron	ppm	ASTM D5185m	<i>></i> 01	282	209	217
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	0
	Molybdenum	ppm	ASTM D5185m		262	250	243
	Manganese	ppm	ASTM D5185m		1	0	<1
	Magnesium	ppm	ASTM D5185m		761	751	812
	Calcium	ppm	ASTM D5185m		1354	1406	1548
	Phosphorus	ppm	ASTM D5185m		873	843	881
	Zinc	ppm	ASTM D5185m		995	1033	1088
	Sulfur	ppm	ASTM D5185m		2908	3115	3487
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	17.4	16.9
			ASTM D2896		8.9	8.8	8.7







Certificate L2367

Report Id: JAMWIN [WUSCAR] 06152893 (Generated: 04/19/2024 11:52:01) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0210659 Lab Number : 06152893

Unique Number : 10982971

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

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

: 18 Apr 2024 : 19 Apr 2024 : 19 Apr 2024 - Wes Davis

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA

US 22656-1761 Contact: PHIL DAUGHERTY

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:

F: (540)693-2588