WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

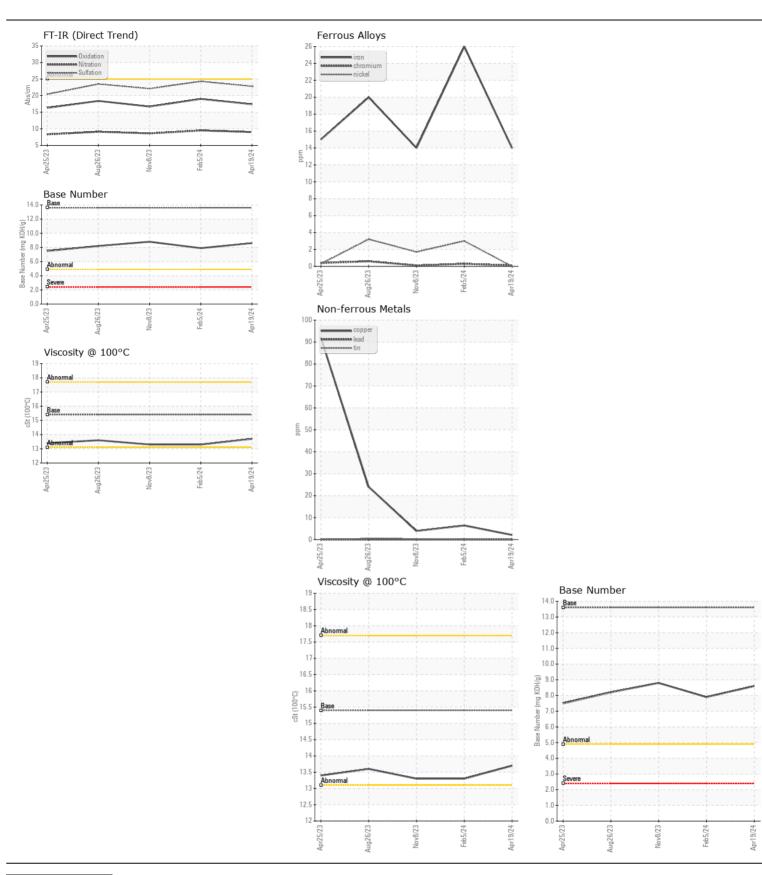
Machine Id

JOHN DEERE 700L 1T0700LXHNF430145

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		JR0212410	JR0202853	JR019118
	Sample Date		Client Info		19 Apr 2024	05 Feb 2024	08 Nov 202
	Machine Age	hrs	Client Info		3004	2473	2072
	Oil Age	hrs	Client Info		531	401	441
	Filter Age	hrs	Client Info		531	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	14	26	14
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	3	2
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>26	2	6	4
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	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	6	7	7
SONTAMINATION	Potassium	ppm	ASTM D5185m		0	3	<1
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	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624		9.0	9.5	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	24.3	22.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	2
EOIB CONDITION	Boron	ppm	ASTM D5185m	701	229	158	216
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		256	255	234
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		844	801	818
	Calcium	ppm	ASTM D5185m		1465	1522	1615
	Phosphorus	ppm	ASTM D5185m		911	869	911
	Zinc	ppm	ASTM D5185m		1110	1112	1168
	Sulfur	ppm	ASTM D5185m		3280	2886	2993
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	19.0	16.7
	Base Number (BN)				8.6	7.9	8.8





Certificate L2367

Laboratory Sample No.

Lab Number : 06158866 Unique Number: 10994289

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0212410

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

: 24 Apr 2024 : 25 Apr 2024

: 26 Apr 2024 - Jonathan Hester

JRE - GARNER 4161 AUBURN CHURCH RD

GARNER, NC US 27529

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Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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)

F: (919)779-5432 Submitted By: JOHN GUASCHINO