WEAR CONTAMINATION FLUID CONDITION

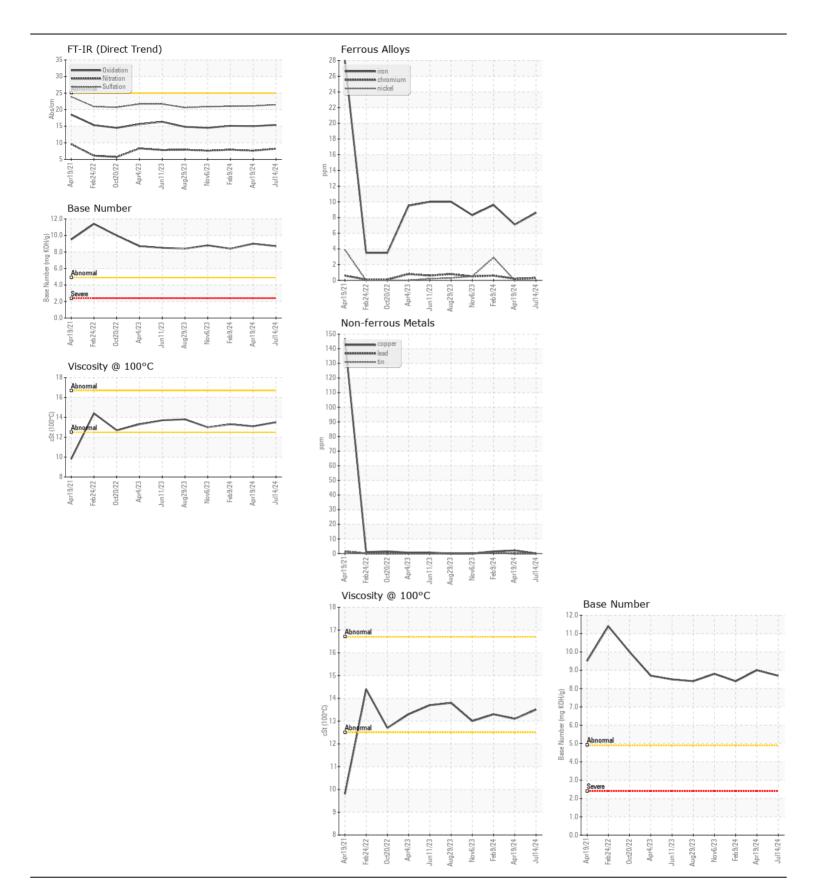
NORMAL NORMAL

Machine Id

JOHN DEERE 644L 1DW644LZJLL706347

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	OOW	Client Info	LITTIOTOTI	JR0226183	JR0208950	JR020066
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		14 Jul 2024	19 Apr 2024	09 Feb 202
	Machine Age	hrs	Client Info		7971	7471	6993
	Oil Age	hrs	Client Info		500	6993	472
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	\51	9	7	10
WLAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	3
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	3	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>26	0	2	2
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	-22	7	6	8
	Potassium	ppm	ASTM D5185m		، <1	0	2
There is no indication of any contamination in the oil.	Fuel	ррпп	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	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.6	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.1	21.0
	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	4	3	0
TEGID CONDITION	Boron	ppm	ASTM D5185m	701	212	239	256
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	2	14
	Molybdenum	ppm	ASTM D5185m		236	218	255
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		783	751	766
	Calcium	ppm	ASTM D5185m		1447	1576	1296
	Phosphorus	ppm	ASTM D5185m		902	930	911
	Zinc	ppm	ASTM D5185m		1033	1066	1044
	Sulfur	ppm	ASTM D5185m		3359	3481	3221
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.0	15.1
	Base Number (BN)	mg KOH/g	ASTM D2896		8.7	9.0	8.4
			ASTM D445			13.1	13.3







Certificate L2367

Laboratory Sample No. Unique Number : 11126374

Lab Number : 06237540

: JR0226183

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

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 17 Jul 2024 : 17 Jul 2024 - Wes Davis

: 16 Jul 2024

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800

Contact: GREENVILLE SHOP christopher.martin@jamesriverequipment.com

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

T:

* - 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: