WEAR
CONTAMINATION
FLUID CONDITION

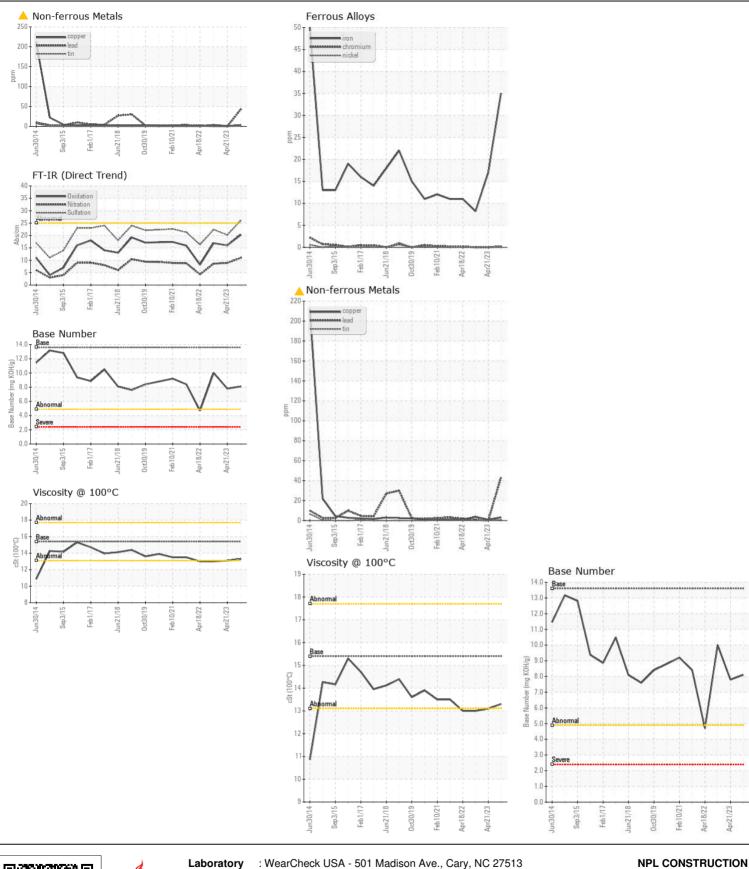
ABNORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 1T0410KXADE248769

Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214541	JR0168820	JR0132809
	Sample Date		Client Info		19 Apr 2024	21 Apr 2023	05 Oct 2022
	Machine Age	hrs	Client Info		5024	4524	4253
	Oil Age	hrs	Client Info		500	271	0
	Filter Age	hrs	Client Info		500	271	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>51	35	17	8
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	0	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	4	3
	Lead	ppm	ASTM D5185m		<u>43</u>	0	<1
	Copper	ppm	ASTM D5185m		3	<1	4
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	nnm	ASTM D5185m	. 00	7	8	6
ONTAMINATION	Potassium	ppm	ASTM D5185m		/ <1	0	2
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.∠1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	1	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.0	8.9	8.6
	Sulfation	Abs/.1mm	*ASTM D7415		26.1	20.2	22.4
	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
LUB CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		119	245	246
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		256	245	243
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		826	781	742
	Calcium	ppm	ASTM D5185m		1484	1367	1400
	Phosphorus	ppm	ASTM D5185m		889	850	880
	Zinc	ppm	ASTM D5185m		1086	1065	1023
	Sulfur	ppm	ASTM D5185m	0.5	3428	3143	3524
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	16.0	16.9
	Base Number (BN)				8.1	7.8	10.0







Certificate L2367

Laboratory Sample No.

: JR0214541 Lab Number : 06158274

Unique Number: 10993697

Received **Tested** Diagnosed

Test Package : CONST (Additional Tests: TBN)

: 24 Apr 2024

: 23 Apr 2024

: 25 Apr 2024 - Sean Felton

US 20109-2668 Contact: BRANDON

7611 COPPERMINE DR

MANASSAS, VA

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)

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