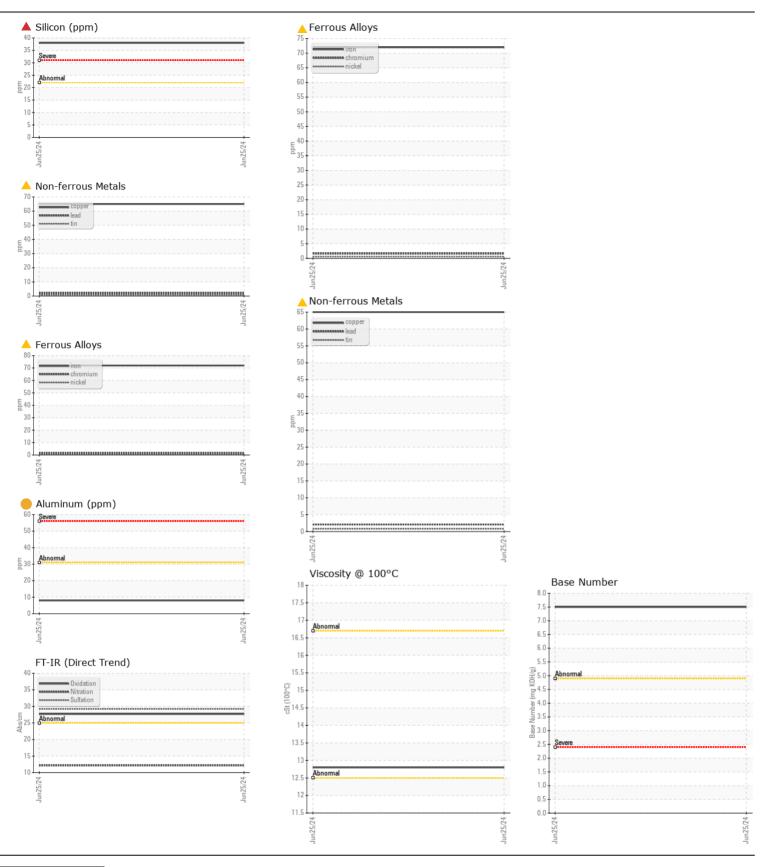
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL SEVERE NORMAL**

Machine Id

JOHN DEERE J422844

Diesel Engine							
{not provided} (GAL)							
	Toot	LIOM	Mothad	Limit/Alan	Current	Lliotomid	Lliatory
RECOMMENDATION	Test Sample Number	UOM	Method Client Info	Limit/Abn	JR0223094	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		25 Jun 2024		
	Machine Age	hrs	Client Info		1053		
	Oil Age	hrs	Client Info		1053		
	Filter Age	hrs	Client Info		1053		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Olioni illio		SEVERE		
WEAD							
WEAR	Iron	ppm	ASTM D5185m		<u>^</u> 72		
The iron level is abnormal. The copper level is abnormal.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		<u>8</u>		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m	>26	<u>▲</u> 65		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	▲ 38		
CONTAMINATION	Potassium	ppm	ASTM D5185m		0		
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Fuel	ррпп	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	7 O.L I	NEG		
	Soot %	%	*ASTM D7844	>3	1.3		
	Nitration	Abs/cm	*ASTM D7624	>20	12.2		
	Sulfation	Abs/.1mm			29.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	9		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		79		
oil.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		240		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		740		
	Calcium	ppm	ASTM D5185m		2021		
	Phosphorus	ppm	ASTM D5185m		956		
	Zinc	ppm	ASTM D5185m		1216		
	Sulfur	ppm	ASTM D5185m		3774		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	27.7		
	Base Number (BN)				7.5		
	Visc @ 100°C	cSt	ASTM D445		12.8		





Certificate L2367

Laboratory Sample No.

: JR0223094 Lab Number : 06224317 Unique Number : 11102514

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

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: KV40, TBN)

: 01 Jul 2024 : 02 Jul 2024

: 02 Jul 2024 - Jonathan Hester

GREENSBORO, NC US 27409 Contact: NICK GALLAHER

NGALLAHER@JRENET.COM T: (336)668-2762

411 SOUTH REGIONAL ROAD

JRE - GREENSBORO

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: (336)665-9556 Contact/Location: NICK GALLAHER - JAMGRE