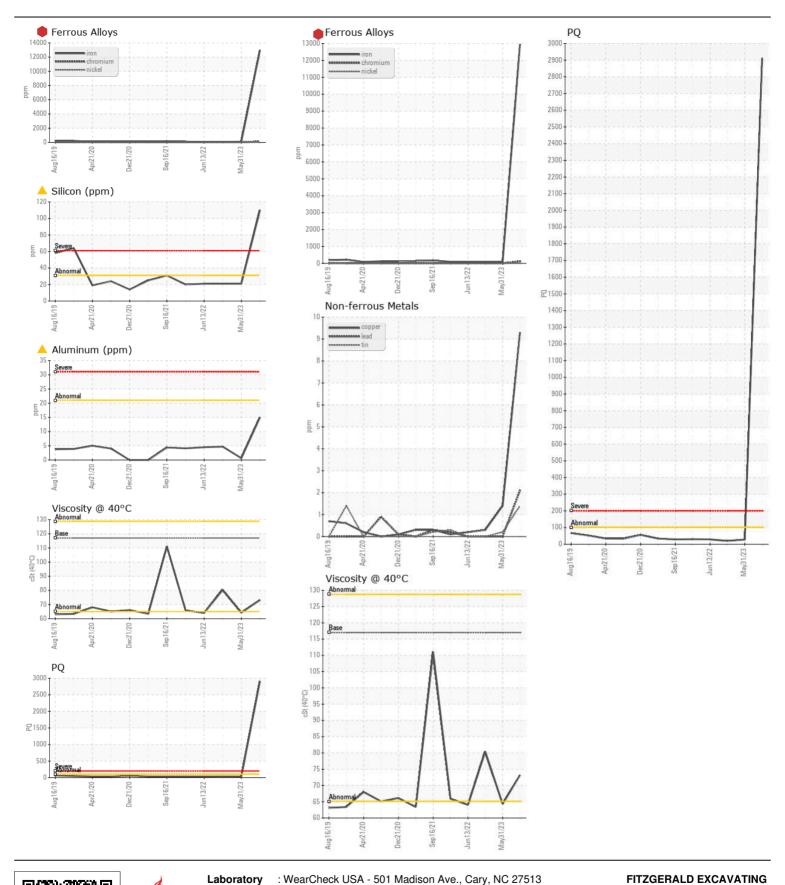
WEAR CONTAMINATION **FLUID CONDITION**

SEVERE ABNORMAL NORMAL

JOHN DEERE PM061092

Component Pump Drive

DECOMMENDATION							
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: Top Up Amount: 1 QTS)	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0203300	JR0174588	JR015325
	Sample Date		Client Info		22 Feb 2024	31 May 2023	11 Nov 202
	Machine Age	hrs	Client Info		6469	5991	5527
	Oil Age	hrs	Client Info		478	5453	538
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Oil Added	Changed	N/A
	Filter Changed		Client Info		None	None	N/A
	Sample Status				SEVERE	NORMAL	NORMA
WEAR	PQ		ASTM D8184		2912	28	20
The iron and chrome levels are severe. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	12958	90	72
	Chromium	ppm	ASTM D5185m	>11	120	1	<1
	Nickel	ppm	ASTM D5185m	>10	5	0	0
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>21	▲ 15	<1	5
	Lead	ppm	ASTM D5185m	>51	2	0	0
	Copper	ppm	ASTM D5185m	>51	9	1	<1
	Tin	ppm	ASTM D5185m	>4	1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>31	<u></u> 110	21	21
	Potassium	ppm	ASTM D5185m	>20	2	1	3
	Water		WC Method	>0.1	NEG	NEG	NEG
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	3	3	0
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		244	300	260
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		231	230	232
	Manganese	ppm	ASTM D5185m		98	3	1
	Magnesium	ppm	ASTM D5185m		734	781	703
	Calcium	ppm	ASTM D5185m		1276	1503	1397
	Phosphorus	ppm	ASTM D5185m		833	906	869
	Zinc	ppm	ASTM D5185m		896	1025	1001
	Sulfur	ppm	ASTM D5185m		2824	3660	3620
	Visc @ 40°C	cSt	ASTM D445	447	73.2	64.3	80.4







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06100326 Unique Number : 10898556

: JR0203300

Received Tested

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 27 Feb 2024 : 28 Feb 2024 - Don Baldridge

: 26 Feb 2024

WINCHESTER, VA US 22604 Contact: Service Manager

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)

T: F:

PO BOX 2168