**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

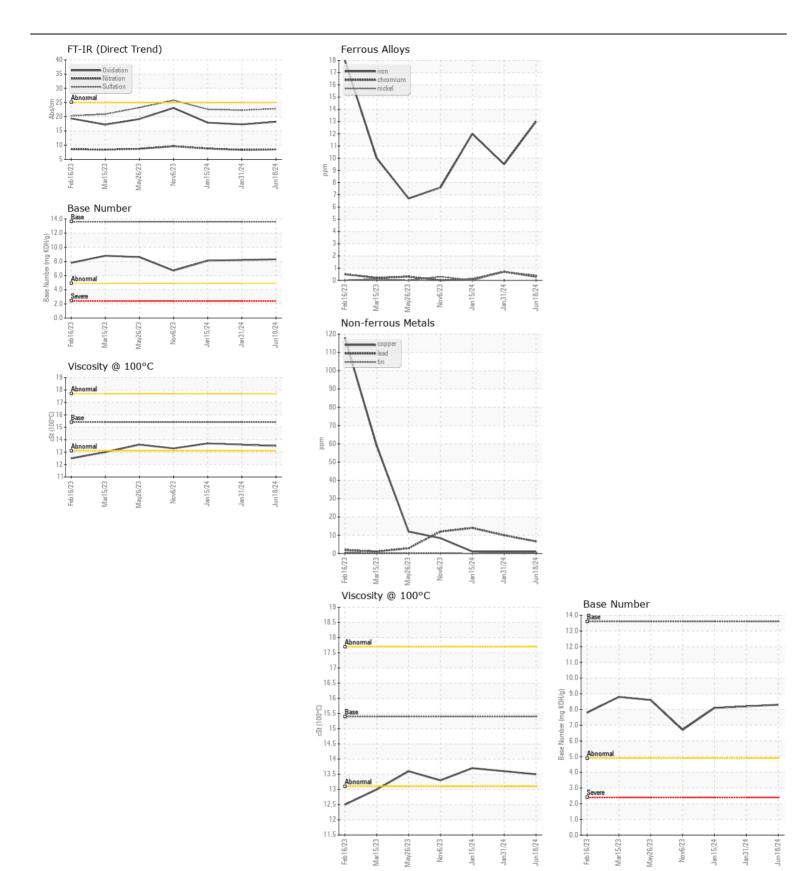
Machine Id

## JOHN DEERE Pump PE4045U148240

Diesel Engine

Fluid
INUM DEEDE ENGINE OIL DI US 50 II 15W40 ( CAL

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0222105	JR0202630	JR0197865
	Sample Date		Client Info		18 Jun 2024	31 Jan 2024	15 Jan 2024
	Machine Age	hrs	Client Info		3435	3062	2651
	Oil Age	hrs	Client Info		3435	411	508
	Filter Age	hrs	Client Info		0	411	508
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	13	10	12
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	70	<1	<1	0
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	0
	Aluminum	ppm	ASTM D5185m		5	4	4
	Lead	ppm	ASTM D5185m		7	10	14
	Copper	ppm	ASTM D5185m		1	1	1
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.00		AOTM DEADE				
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	9	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	2	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0.1 8.5	0.1	0.1
		Abs/tmm				8.3	8.8
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		22.8 NONE	22.3	22.6
	Debris	scalar		NONE		NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	0	1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		306	245	229
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		263	249	243
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		824	832	861
	Calcium	ppm	ASTM D5185m		1478	1321	1532
	Phosphorus	ppm	ASTM D5185m		959	899	915
	Zinc	ppm	ASTM D5185m		1140	1107	1189
	Sulfur	ppm	ASTM D5185m	0.5	3193	3128	3191
	Oxidation	Abs/.1mm	*ASTM D7414		18.2	17.3 8.2	17.9
		ma KALIA	V6.1M D3608	136	8.3	8.2	8.1
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2090		13.5	13.6	13.7







Certificate L2367

Laboratory Sample No. Unique Number : 11088343

: JR0222105 Lab Number : 06215479

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

Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 20 Jun 2024 : 21 Jun 2024

: 21 Jun 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD

GARNER, NC US 27529

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. T: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432