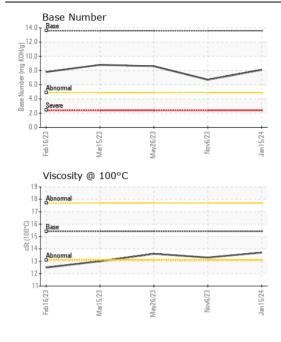
**WEAR** CONTAMINATION **FLUID CONDITION** 

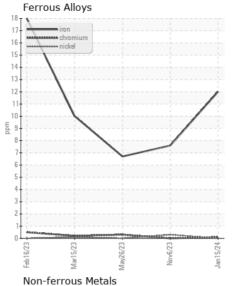
**NORMAL NORMAL NORMAL** 

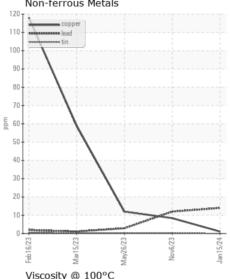
## JOHN DEERE Pump PE4045U148240

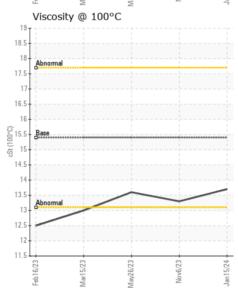
Diesel Engine

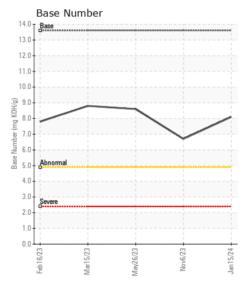
ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0197865	JR0190739	JR017509
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Jan 2024	06 Nov 2023	26 May 202
	Machine Age	hrs	Client Info		2651	2143	1545
	Oil Age	hrs	Client Info		508	598	567
	Filter Age	hrs	Client Info		508	598	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
/EAR	Iron	ppm	ASTM D5185m	>51	12	8	7
	Chromium	ppm	ASTM D5185m	-	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m		14	12	3
	Copper	ppm	ASTM D5185m		1	8	12
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-22</b>	8	7	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		<1	2	1
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	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.6	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	25.8	23.2
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
LUD CONDITION	Sodium	nnm	ASTM D5185m	. 01	1	2	2
FLUID CONDITION	Boron	ppm	ASTM D5185m	>01	229	204	239
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		243	242	233
	Manganese		ASTM D5185m		<1	<1	<1
	-	ppm	ASTM D5185m		861	874	872
	Magnesium Calcium	ppm	ASTM D5185m		1532	1472	1460
	Phosphorus	ppm ppm	ASTM D5185m		915	823	872
	Zinc		ASTM D5185m		1189	1088	1109
	Sulfur	ppm ppm	ASTM D5185m		3191	2992	3565
	Oxidation	Abs/.1mm	*ASTM D3763111	>25	17.9	23.1	19.2
	Base Number (BN)		ASTM D2896		8.1	6.7	8.6
	Visc @ 100°C	my NOTI/9	ASTM D2090		0.1	13.3	13.6













Laboratory Sample No. Lab Number **Unique Number** 

: JR0197865 : 06062486 : 10833868

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

: 17 Jan 2024 Diagnosed

: 18 Jan 2024 Diagnostician : Don Baldridge

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

4161 AUBURN CHURCH RD

T: (919)614-2260 F: (919)779-5432

Test Package : CONST ( Additional Tests: TBN ) 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) JRE - GARNER

GARNER, NC

US 27529