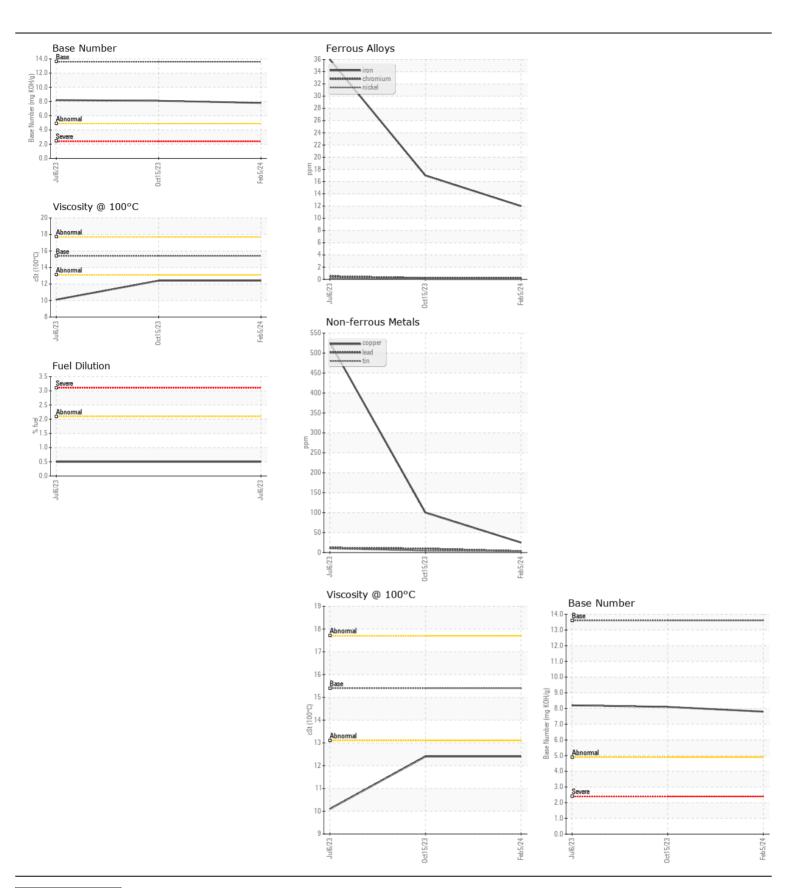
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

JOHN DEERE 460P 1DW460PALPFB06469

Component Diesel Engine

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0202800	JR0186773	JR017556
	Sample Date		Client Info		05 Feb 2024	15 Oct 2023	06 Jul 202
	Machine Age	hrs	Client Info		1512	492	492
	Oil Age	hrs	Client Info		0	492	492
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	12	17	36
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	4	4
	Lead	ppm	ASTM D5185m		3	10	12
	Copper	ppm	ASTM D5185m	>26	25	<u></u> 100	<u>▲</u> 526
	Tin	ppm	ASTM D5185m	>4	3	4	10
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	~22	4	6	12
	Potassium	ppm	ASTM D5185m		<1	<1	5
There is no indication of any contamination in the oil.	Fuel	%	ASTM D316311		<1.0	<1.0	0.5
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 2	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		8.7	8.8	8.7
	Sulfation	Abs/.1mm	*ASTM D7024		22.8	21.9	22.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
THE CONDITION			AOTA DELOE	0.4			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	5	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		173	172	158
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		260	252	243
	Manganese	ppm	ASTM D5185m		1	2	11
	Magnesium	ppm	ASTM D5185m		798	792	743
	Calcium	ppm	ASTM D5185m		1319	1426	1413
	Phosphorus	ppm	ASTM D5185m		860	885	898
	Zinc	ppm	ASTM D5185m		1021	1068	1078
	0.16		15 1M 115185m		2755	2876	3201
	Sulfur	ppm	ASTM D5185m	0.5			
	Oxidation	Abs/.1mm	*ASTM D7414		16.5	16.2	17.9
		Abs/.1mm mg KOH/g		13.6			







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06083433

: JR0202800

Unique Number : 10870878

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: FuelDilution, TBN)

: 08 Feb 2024 : 12 Feb 2024 : 12 Feb 2024 - Jonathan Hester 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

* - 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: (919)779-5432

JRE - GARNER