WEAR CONTAMINATION FLUID CONDITION

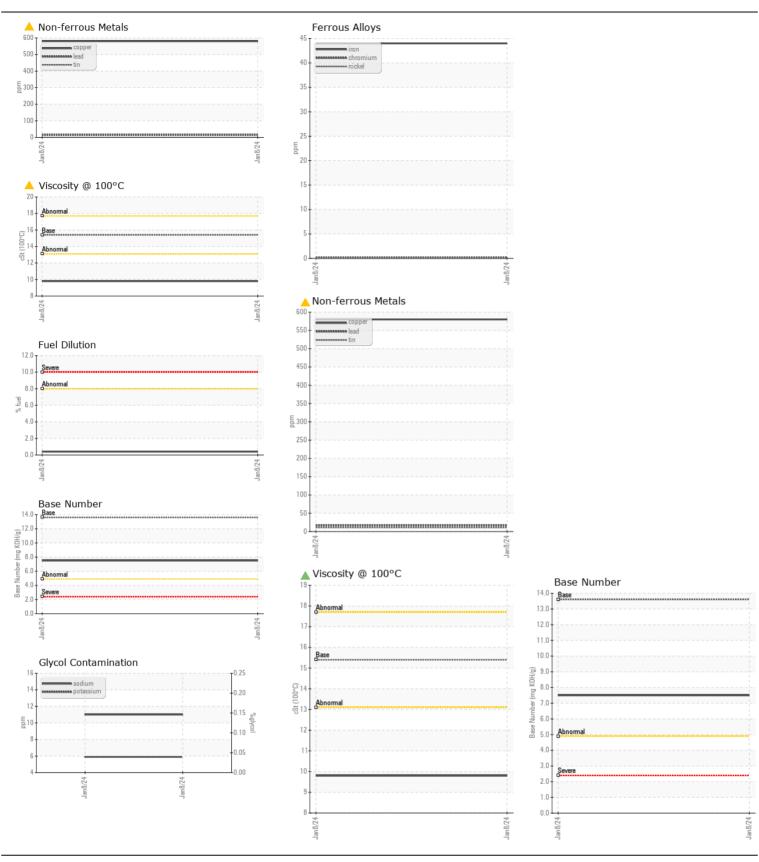
ABNORMAL NORMAL ATTENTION

[NATIONAL ASPHALT]

JOHN DEERE 844P 1DW844PACPLX07311

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0199320		
	Sample Date		Client Info		08 Jan 2024		
	Machine Age	hrs	Client Info		439		
	Oil Age	hrs	Client Info		439		
	Filter Age	hrs	Client Info		439		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
MEAD	lvon		ACTM DE10Em	. 51	44		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		44		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		17		
	Copper Tin	ppm	ASTM D5185m		<u>▲</u> 580		
	Vanadium	ppm	ASTM D5185m ASTM D5185m	>4	11		
		ppm		NONE	0 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	17		
	Potassium	ppm	ASTM D5185m		6		
	Fuel	%			0.4		
	Water		WC Method		NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3		
	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		
LUD AANDITIAN							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	11		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		230		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		259		
	Manganese	ppm	ASTM D5185m		20		
	Magnesium	ppm	ASTM D5185m		800		
	Calcium	ppm	ASTM D5185m		1339		
	Phosphorus	ppm	ASTM D5185m		901		
	Zinc	ppm	ASTM D5185m		1080		
	Sulfur	ppm	ASTM D5185m		3088		
	Oxidation	Abs/.1mm	*ASTM D7414		16.4		
	Base Number (BN)		ASTM D2896	100	7.5		







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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0199320 : 06055734 : 10821683

Recieved Diagnosed

: 09 Jan 2024 : 11 Jan 2024 Diagnostician : Jonathan Hester JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DON VEST dvest@jamesriverequipment.com

* - 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)

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