WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

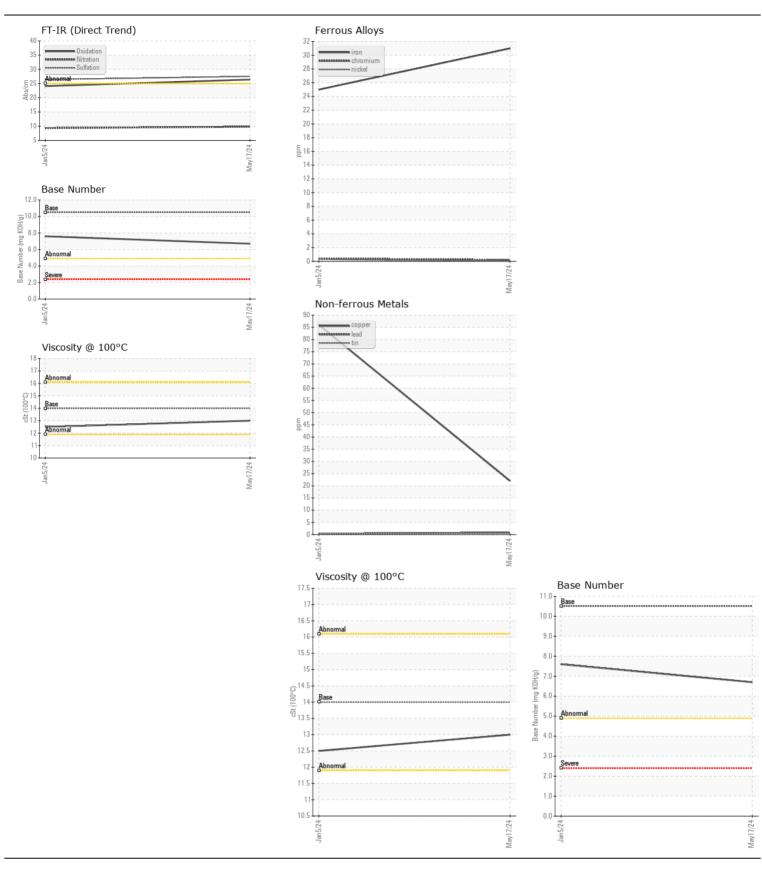
[05W46860]

JOHN DEERE 324G 1T0324GMHPJ433658

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (12 QTS)

DECOMMENDATION.							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214341	JR0199445	
	Sample Date		Client Info		17 May 2024		
	Machine Age	hrs	Client Info		1021	510	
	Oil Age	hrs	Client Info		511	510	
	Filter Age	hrs	Client Info		511	510	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	31	25	
	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m		6	4	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		22	<u> 86</u>	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			VIOUGI		····		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	21	35	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	3	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	26.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
THE CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	206	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		206	231 0	
		ppm			0		
	Molybdenum	ppm	ASTM D5185m		238	181	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		749	590	
	Calcium	ppm	ASTM D5185m		1483	1442	
	Phosphorus	ppm	ASTM D5185m		861	1029	
	Zinc	ppm	ASTM D5185m		1057	899	
	Sulfur	ppm	ASTM D5185m	0.5	3089	5633	
	Oxidation	Abs/.1mm	*ASTM D7414		26.4	24.1	
	Base Number (BN)	0 0			6.7	7.6	
	Visc @ 100°C	cSt	ASTM D445	14	13.0	12.5	







Certificate L2367

Laboratory Sample No.

Lab Number : 06187054 Unique Number : 11043806

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0214341

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 23 May 2024

: 21 May 2024

: 23 May 2024 - Sean Felton

Contact: DON VEST dvest@jamesriverequipment.com

T: (703)631-8500 F: (703)631-4715

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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)

US 20111