WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

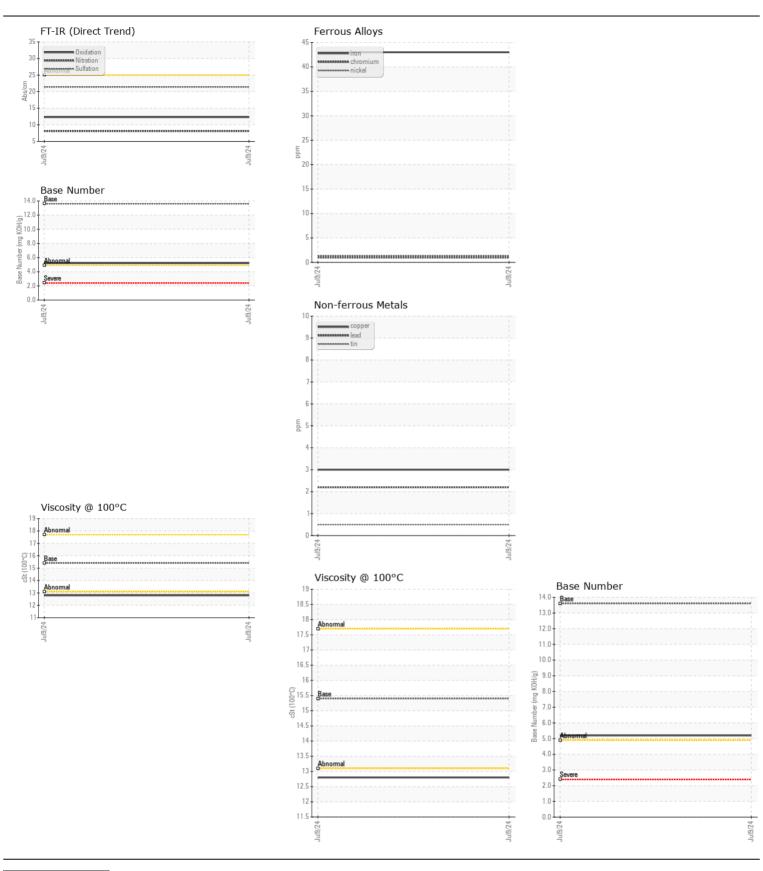
Machine Id

JOHN DEERE 180G 1FF180GXCDE020251

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

<u></u>	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0208543		
	Sample Date		Client Info		09 Jul 2024		
	Machine Age	hrs	Client Info		8371		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAD			40TH DE (05				
WEAR	Iron	ppm	ASTM D5185m		43		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	\22	6		
CONTAMINATION	Potassium	ppm	ASTM D5185m		3		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0		
	Water	70	WC Method		NEG		
	Glycol		WC Method	70.21	NEG		
	Soot %	%	*ASTM D7844	\3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	8.1		
	Sulfation	Abs/.1mm	*ASTM D7415		21.4		
	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		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4		
	Boron	ppm	ASTM D5185m		5		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		11		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		63		
	Calcium	ppm	ASTM D5185m		2255		
	Phosphorus	ppm	ASTM D5185m		820		
	Zinc	ppm	ASTM D5185m		1036		
	Sulfur	ppm	ASTM D5185m		3222		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.3		
	Dage Number (DNI)	mg KOH/g	ASTM D2896	13.6	5.2		
	Base Number (BN)	mg nomg	710 1111 DE000		-		







Certificate L2367

Laboratory Sample No.

Lab Number : 06232098 Unique Number : 11115591

: JR0208543

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

Received **Tested** Diagnosed

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

: 11 Jul 2024

: 10 Jul 2024

: 11 Jul 2024 - Don Baldridge

MANASSAS PARK, VA US 20111 Contact: DON VEST dvest@jamesriverequipment.com

JRE - MANASSAS PARK

9107 OWENS DRIVE

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)

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

Report Id: JAMMAN [WUSCAR] 06232098 (Generated: 07/12/2024 13:34:21) Rev: 1

Contact/Location: DON VEST - JAMMAN