WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

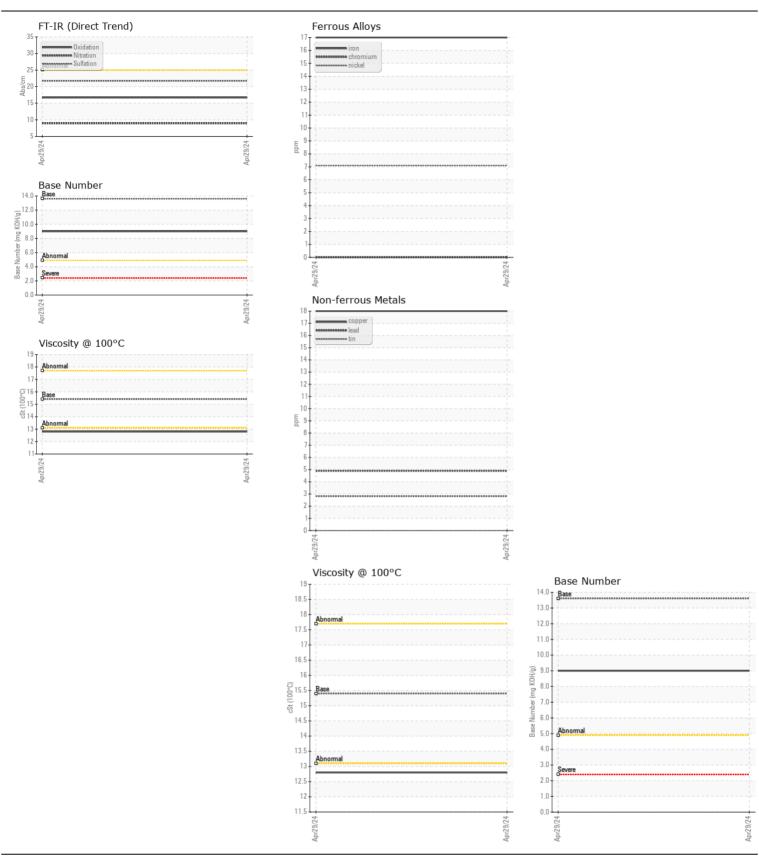
[CENTERLINE CONTRACT]

## **JOHN DEERE 9520R 1RW9520RKME067361**

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0198567		
	Sample Date		Client Info		29 Apr 2024		
	Machine Age	hrs	Client Info		659		
	Oil Age	hrs	Client Info		200		
	Filter Age	hrs	Client Info		200		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	17		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	0		
	Nickel	ppm	ASTM D5185m	>5	7		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	14		
	Lead	ppm	ASTM D5185m	>26	5		
	Copper	ppm	ASTM D5185m	>26	18		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6		
SONTAMINATION	Potassium	ppm	ASTM D5185m		26		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0		
	Water	,,,	WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		21.7		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	<b>\</b> 31	3		
LOID CONDITION	Boron	ppm	ASTM D5185m		178		
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		222		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		785		
	Calcium	ppm	ASTM D5185m		1462		
	Phosphorus	ppm	ASTM D5185m		972		
	Zinc	ppm	ASTM D5185m		1091		
	Sulfur	ppm	ASTM D5185m		3441		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7		
	Base Number (BN)				9.0		
		0 0					





Laboratory Sample No. Unique Number : 11021274

: JR0198567 Lab Number : 06175221

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

: 10 May 2024 **Tested** Diagnosed

: 13 May 2024 : 13 May 2024 - Don Baldridge Test Package : CONST ( Additional Tests: FuelDilution, TBN )

JRE - MONROE 2112 MORGAN MILL ROAD MONROE, NC

US 28110 Contact: MONROE SHOP Steve.Drugan@jamesriverequipment.com

T:

F:

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)