

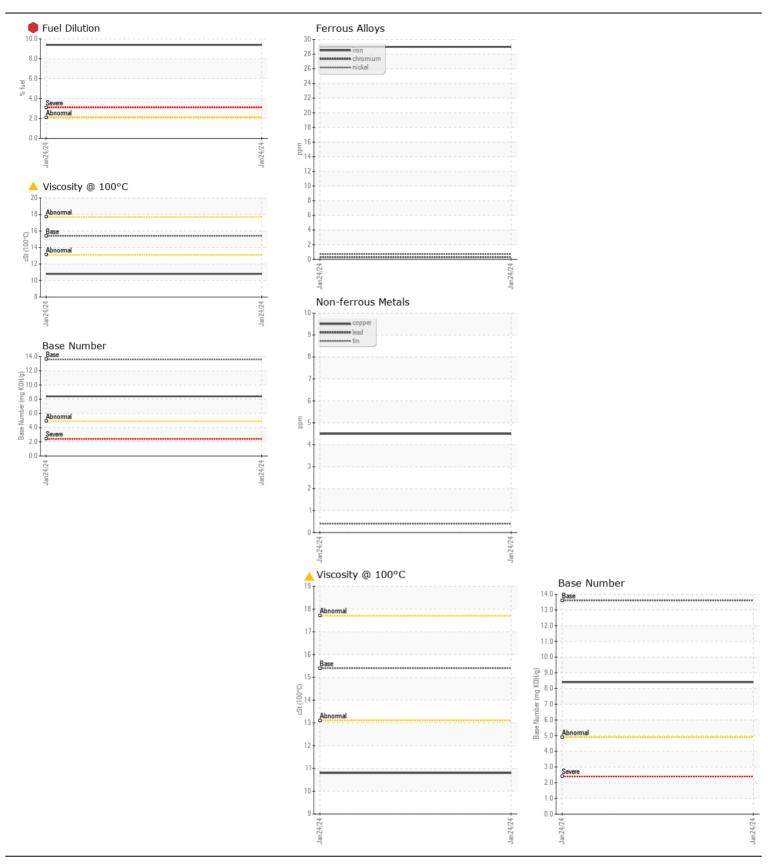
Machine Id JOHN DEERE 3032E 60098461 (S/N AH310716) Component Diesel Engine JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

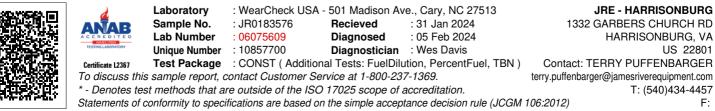
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0183576		
	Sample Date		Client Info		24 Jan 2024		
	Machine Age	hrs	Client Info		506		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>51	29		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	7		
	Lead	ppm	ASTM D5185m	>26	4		
	Copper	ppm	ASTM D5185m	>26	4		
	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 Potassium	ppm	ASTM D5185m ASTM D5185m		20 3		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	ppm %	ASTM D318511		9.4		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	>0.21			
	3	0/		. 0	NEG		
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624	>3 >20	0.1 11.2		
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624		22.5		
	Silt				NONE		
	Debris	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NONE			
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML		
	Appearance Odor	scalar	*Visual *Visual	NORML			
		scalar		NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Sodium	ppm	ASTM D5185m	>31	3		
	Boron	ppm	ASTM D5185m		191		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		220		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		754		
	Calcium	ppm	ASTM D5185m		1229		
	Phosphorus	ppm	ASTM D5185m		797		
	Zinc	ppm	ASTM D5185m		950		
	Sulfur	ppm	ASTM D5185m		2926		
	Oxidation	Abs/.1mm	*ASTM D5185111	>25	2926		
	Base Number (BN)				8.4		
		nig KOR/g	A01101 D2030	10.0	0.4		

Visc @ 100°C cSt

10.8

ASTM D445 15.4





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