

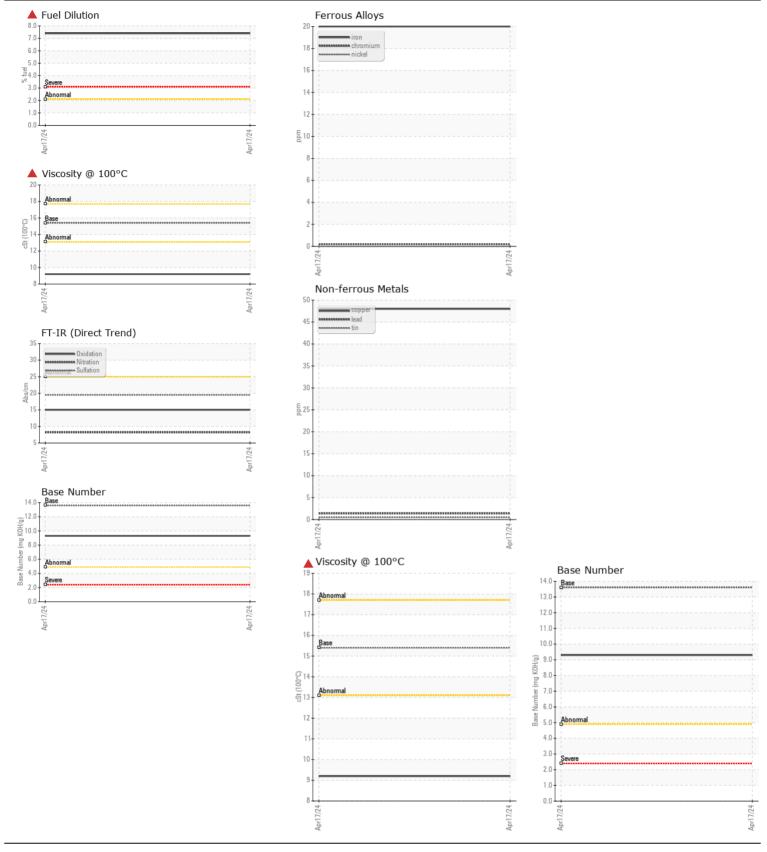
Machine Id JOHN DEERE 3038E 1LV3038EANP141968 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

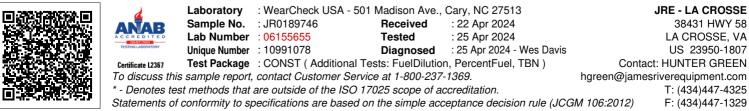
	(415)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0189746		
	Sample Date		Client Info		17 Apr 2024		
	Machine Age	hrs	Client Info		191		
	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		
				F 4			
WEAR	Iron	ppm	ASTM D5185m		20		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		48		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	63		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>2.1	A 7.4		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5		
	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		
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	16		
	Boron	ppm	ASTM D5185m	201	191		
	Barium	ppm	ASTM D5185m		8		
	Molybdenum	ppm	ASTM D5185m		192		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		574		
	Calcium	ppm	ASTM D5185m		1808		
	Phosphorus	ppm	ASTM D5185m		882		
	Zinc	ppm	ASTM D5185m		1015		
	Sulfur	ppm	ASTM D5185m		4012		
	Oxidation	Abs/.1mm	*ASTM D3103111	>25	15.0		
	Base Number (BN)				9.3		
		ing Koning		10.0	5.5		

Visc @ 100°C cSt

ASTM D445 15.4

9.2





Contact/Location: HUNTER GREEN - JAMSOU Page 2 of 2