

[W21770-02] Machine Id JOHN DEERE 3038E 1LV3038ECFH716286 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (- MAL)						
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		JR0210841		
	Sample Date		Client Info		16 Apr 2024		
	Machine Age	hrs	Client Info		408		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	<u></u> 51	9		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		ء <1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	20	0		
	Silver	ppm	ASTM D5185m	-3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm		>26	0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	21	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11		
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	0		
	Fuel	%	ASTM D3524	>2.1	3 .7		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6		
	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	Sodium	nnm	ASTM D5185m	<u>\31</u>	2		
I LOID CONDITION	Boron	ppm ppm	ASTM D5185m	201	72		
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.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		95		
		ppm	ASTM D5185m		<1		
longer serviceable due to the presence of contaminants.	Manganese				~ 1		
longer serviceable due to the presence of contaminants.	Manganese Magnesium		ASTM D5185m		157		
longer serviceable due to the presence of contaminants.	Magnesium	ppm	ASTM D5185m ASTM D5185m		157 2142		
longer serviceable due to the presence of contaminants.	Magnesium Calcium	ppm ppm	ASTM D5185m		2142		
longer serviceable due to the presence of contaminants.	Magnesium	ppm					

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896 13.6

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

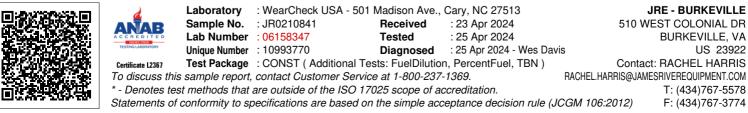
3983

15.3

6.9

12.2





Contact/Location: RACHEL HARRIS - JAMBUR Page 2 of 2