

[W51742] JOHN DEERE 333G 1T0333GMCPF455916 **Diesel Engine** JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDA

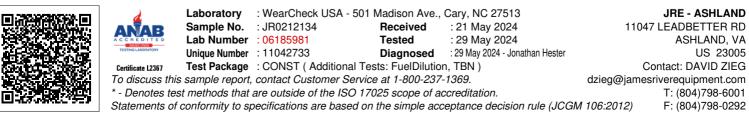
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212134		
	Sample Date		Client Info		07 May 2024		
	Machine Age	hrs	Client Info		438		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
				F 4			
WEAR	Iron	ppm	ASTM D5185m		39		
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	ar Niekol	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	1		
	g Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		2		
	Aluminum	ppm	ASTM D5185m		9		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	60		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524		<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.9		
	Nitration	Abs/cm	*ASTM D7624		8.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8		
	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	ppm	ASTM D5185m	>31	12		
The BN level is low. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		204		
	Banum	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		248		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		760		
	Calcium	ppm	ASTM D5185m		1773		
	Phosphorus	ppm	ASTM D5185m		1010		
	Zinc	ppm	ASTM D5185m		1145		
	Sulfur	ppm	ASTM D5185m		3735		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	A 3.5		
	V/ 0 40000	- 01	AOTA DAAF	4 5 4	10.4		

Visc @ 100°C cSt

ASTM D445 15.4

12.1





Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2