

Machine Id JOHN DEERE 331G 1T0331GKLGF303343 Component Diesel Engine Fluid

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0209970	JR0030655	
	Sample Date		Client Info		09 May 2024	22 Jan 2020	
	Machine Age	hrs	Client Info		2054	1263	
	Oil Age	hrs	Client Info		1263	0	
	Filter Age	hrs	Client Info		1263	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	5 6	41	
	Chromium	ppm	ASTM D5185m		<1	<1	
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		6	4	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		8	▲ 31	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon				40	10	
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		16 3	13 3	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm		>20		<1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.21	NEG	NEG	
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.6	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.7	
	Sulfation	Abs/.1mm	*ASTM D7024		28.7	26	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.21	NEG	NEG	
	0						
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	>31	1	3	
The BN result indicates that there is suitable alkalinity remaining in the		ppm	ASTM D5185m		162	74	
The bin result indicates that there is suitable alkalinity remaining in the	Barium Molybdenum	ppm	ASTM D5185m		<1 242	<1	
		ppm	ASTM D5185m		242	38	
	,	nnm	ASTM DE195m		-1	-1	-
	Manganese	ppm	ASTM D5185m		<1 725	<1	
oil. The condition of the oil is acceptable for the time in service.	Manganese Magnesium	ppm	ASTM D5185m		725	139	
	Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		725 1417	139 2244	
	Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		725 1417 874	139 2244 915	
	Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		725 1417	139 2244	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

6.3

14.8

6.5

13.0



