

[W00257] JOHN DEERE 3032E 67000158 (S/N 1LV3032EKMM138121)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0209067		
	Sample Date		Client Info		27 Jun 2024		
	Machine Age	hrs	Client Info		158		
	Oil Age	hrs	Client Info		158		
	Filter Age	hrs	Client Info		158		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron		ASTM D5185m	、 5 1	16		
	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>0			
		ppm		. 0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		5 20		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		20		
		ppm	ASTM D5185m	>4	0 <1		
	Vanadium	ppm	*Visual				
	White Metal Yellow Metal	scalar		NONE	NONE		
		scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	64		
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel	%	ASTM D3524	>2.1	5 .1		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9		
	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	<u>_</u> 31	13		
	Boron	ppm	ASTM D5185m	201	190		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		9		
	Molybdenum	ppm	ASTM D5185m		236		
	Manganese	ppm	ASTM D5185m		230		
	Magnesium	ppm	ASTM D5185m		2 755		
	Calcium	ppm	ASTM D5185m		2235		
	Phosphorus	ppm	ASTM D5185m		1086		
	Zinc		ASTM D5185m		1334		
	Sulfur	ppm ppm	ASTM D5185m		5078		
	Oxidation	Abs/.1mm	*ASTM D5185111	>25	5078 14.5		
	Base Number (BN)		ASTM D7414 ASTM D2896				
	Dase Number (BN)	IIIQ NUH/Q	ASTIVI D2896	13.0	9.4		

ASTM D445 15.4

Visc @ 100°C cSt



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - DILLWYN** 回窃 Sample No. : JR0209067 Received 284 MAIN ST : 28 Jun 2024 Lab Number : 06223275 Tested DILLWYN, VA : 03 Jul 2024 Unique Number : 11101472 : 03 Jul 2024 - Jonathan Hester US 23936 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, KV40, PercentFuel, TBN) Contact: MIKE FALVELLA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mike.falvella@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (434)983-1633 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: MIKE FALVELLA - JAMDILVA Page 2 of 2