



## Area Store 4 - Fairmont Machine Id JOHN DEERE 160G 1FF160GXTNF058789

Component Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

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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		LEC0040415		
	Sample Date		Client Info		01 May 2023		
	Machine Age	hrs	Client Info		538		
	Oil Age	hrs	Client Info		538		
	Filter Age	hrs	Client Info		538		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		33		
The copper level is abnormal. All other 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		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		10		
	Lead	ppm	ASTM D5185m		6		
	Copper	ppm	ASTM D5185m		<b>A</b> 84		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>120	11		
	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524		0.5		
	Water	70	WC Method		NEG		
	Glycol		WC Method	20.21	NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	*ASTM D7415		23.2		
	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		*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4		
	Boron	ppm	ASTM D5185m		122		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		253		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		721		
	Calcium	ppm	ASTM D5185m		1593		
	Phosphorus	ppm	ASTM D5185m		865		
	Zinc	ppm	ASTM D5185m		1091		
	Sulfur	ppm	ASTM D5185m		2884		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8		
	Base Number (BN)	mg KOH/g			6.9		

Visc @ 100°C cSt

ASTM D445 15.4

**11.4** 



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0040415 :04 May 2023 Lab Number : 05837535 :08 May 2023 MARIETTA, OH Tested Unique Number : 10456338 : 08 May 2023 - Don Baldridge US 45750-9765 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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