

Store 2 - Beaver

JOHN DEERE 859M 1T0859MXCPL441159

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 GAL)

RECOMMENDATION

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. No corrective	atad Na aarraativa	Sample Number		Client Info		LEC0046255		
action is recommended at this time. Resample at th		Sample Date		Client Info		05 Feb 2024		
interval to monitor.		Machine Age	hrs	Client Info		395		
		Oil Age	hrs	Client Info		395		
		Filter Age	hrs	Client Info		395		
		Oil Changed		Client Info		Changed		
		Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL			
WEAR Iron ppm ASTM D5185m >51						66		
WEAN		Chromium	ppm	ASTM D5185m		2		
Exhaust valve wear is indicated. All other metal levels are typical for a new component breaking in.	els are typical for a	Nickel	ppm	ASTM D5185m		∠ ▲ 19		
		Titanium	ppm	ASTM D5185m	20	<1		
		Silver	ppm	ASTM D5185m	>3	0		
		Aluminum	ppm	ASTM D5185m		7		
		Lead	ppm	ASTM D5185m		2		
		Copper	ppm	ASTM D5185m		- 11		
		Tin	ppm	ASTM D5185m		2		
		Vanadium	ppm	ASTM D5185m		<1		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185m		11		
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	There is no	Potassium	ppm	ASTM D5185m		24		
		Fuel	%	ASTM D3524		0.2		
		Water		WC Method	>0.21	NEG		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844		0.5		
		Nitration	Abs/cm	*ASTM D7624		9.1		
		Sulfation	Abs/.1mm	*ASTM D7415		23.5		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	NONE		
		Sand/Dirt	scalar	*Visual	NONE	NONE		
		Appearance Odor	scalar	*Visual *Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	NORML >0.21	NORML NEG		
			scalar	visual	>0.21	NEG		
FLUID CONDITION The oil viscosity is lower than normal. The BN result indicate there is suitable alkalinity remaining in the oil. Confirm oil typ		Sodium	ppm	ASTM D5185m	>31	8		
		Boron	ppm	ASTM D5185m		209		
		Barium	ppm	ASTM D5185m		3		
there is suitable alkalinity remaining in the oil. Com		Molybdenum	ppm	ASTM D5185m		250		
		Manganese	ppm	ASTM D5185m		3		
		Magnesium	ppm	ASTM D5185m		825		
		Calcium	ppm	ASTM D5185m		1624		
		Phosphorus	ppm	ASTM D5185m		983		
		Zinc	ppm	ASTM D5185m		1158		
		Sulfur	ppm	ASTM D5185m		3258		
		Oxidation	Abs/.1mm	*ASTM D7414		18.8		
		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9		
		1/2	<u> </u>					

ASTM D445 15.4

Visc @ 100°C cSt

FLUID CONDITION

10.5



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回行 Sample No. Received 105 TENNIS CENTER DR. : LEC0046255 : 23 Feb 2024 Lab Number : 06099034 : 27 Feb 2024 Tested MARIETTA, OH : 27 Feb 2024 - Sean Felton US 45750-9765 Unique Number : 10897264 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. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

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