

## CONDITION ABN

0100	FI

## Store 6 - Ashland [152254] JOHN DEERE 844K 28819 (S/N 1DW844KCLJF689430) Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 GAL)

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		LEC0051342	LEC0046491	LEC0041889
	Sample Date		Client Info		02 Jul 2024	15 Jan 2024	25 Aug 2023
	Machine Age	hrs	Client Info		11067	10131	9547
	Oil Age	hrs	Client Info		936	584	584
	Filter Age	hrs	Client Info		936	584	584
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	21	14	14
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		7	4	7
	Lead	ppm	ASTM D5185m		4	3	3
	Copper	ppm	ASTM D5185m		16	12	14
	Tin	ppm	ASTM D5185m	>4	0	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<120	5	6	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		1	3	2
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3103III		6.9	3.6	<u>∠</u> <u>∧</u> 5.9
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.6	0.5	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.7	10.2
	Sulfation	Abs/.1mm	*ASTM D7024		25.9	24.6	24.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
	Sodium		ACTM DE105m	. 01	10	.1	 Б
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>01	10 69	<1 164	5 142
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.		ppm			69 0	164	
	Barium	ppm	ASTM D5185m		0	4	0
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		244	249 0	254 <1
	•	ppm			<1 759		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		759 1415	815 1298	827 1437
		ppm					761
	Phosphorus	ppm	ASTM D5185m		724 842	777	
	Zinc	ppm	ASTM D5185m		842	978	950
	Sulfur	ppm	ASTM D5185m	> OF	2806	3124	3414
	Oxidation	Abs/.1mm	*ASTM D7414		20.7	18.8	19.0
	Base Number (BN)	nig KOH/g	A21101 D2030	13.0	7.2	7.4	8.0

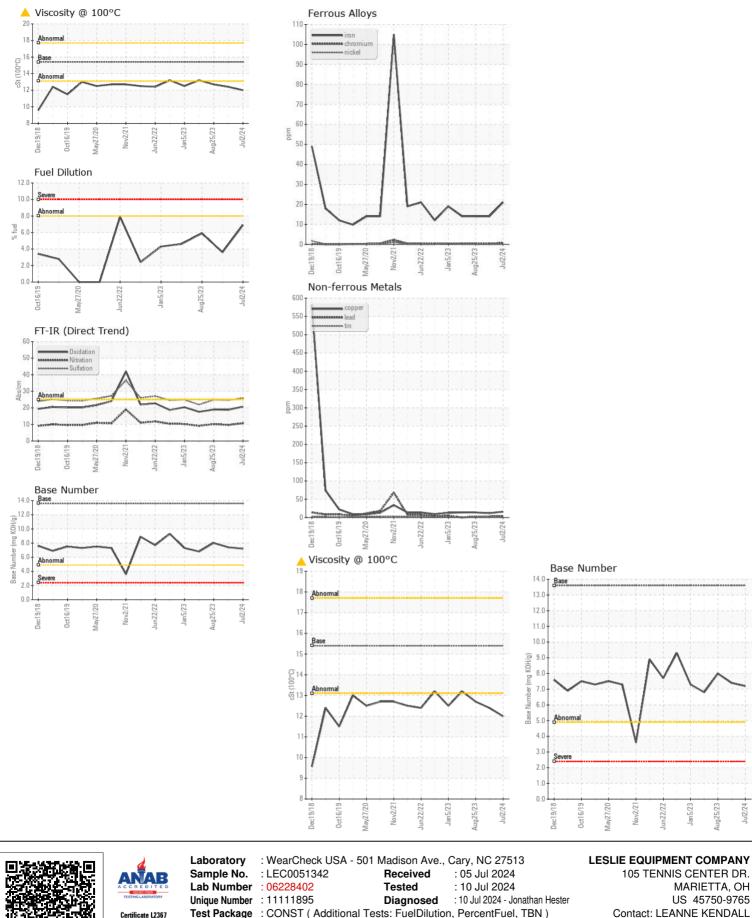
Visc @ 100°C cSt

**12.0** 

ASTM D445 15.4

12.4

**12.7** 



Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) 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. F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: STORE 5 - CROSS LANES - KYLE HIGGINS Page 2 of 2

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