

Store 1 - Cowen [RO#150387] JOHN DEERE 748L II 1DW748LBTMF711946

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048752		LEC0038677
	Sample Date		Client Info		07 May 2024	23 Oct 2023	14 Feb 2023
	Machine Age	hrs	Client Info		2631	2064	1484
	Oil Age	hrs	Client Info		567	580	362
	Filter Age	hrs	Client Info		567	580	362
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	17	16	13
	Chromium	ppm	ASTM D5185m	>11	<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	3	5	5
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	6	3
	Lead	ppm	ASTM D5185m	>26	<1	0	<1
	Copper	ppm	ASTM D5185m	>26	3	4	16
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>120	10	11	8
	Potassium	ppm	ASTM D5185m		4	7	3
	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		9.3	9.1	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.1	22.1	21.2
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	3	3
	Boron	ppm	ASTM D5185m	201	210	143	215
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3	0	<1
	Molybdenum	ppm	ASTM D5185m		255	235	248
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		768	722	799
	Calcium	ppm	ASTM D5185m		1420	1472	1425
	Phosphorus	ppm	ASTM D5185m		997	952	846
	Zinc	ppm	ASTM D5185m		1104	1117	1052
	Sulfur		ASTM D5185m		3441	3784	3484
	Oxidation	ppm Abs/.1mm	*ASTM D5185111	>25	16.7	16.2	15.7
	Base Number (BN)	niy KUH/g	ASTM D2896	13.0	8.1	8.3	8.8

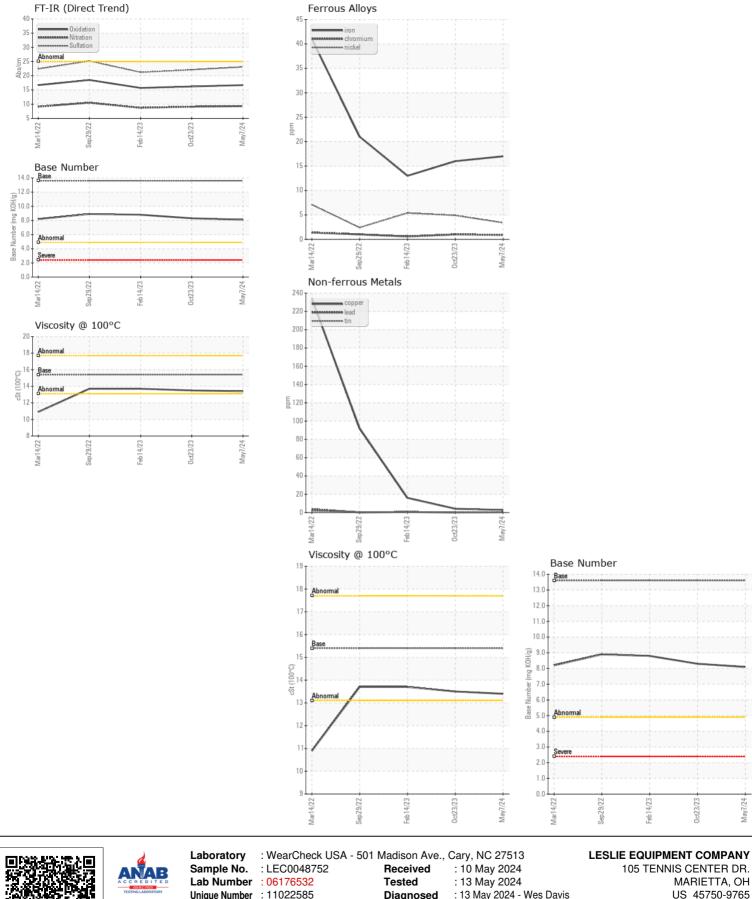
Visc @ 100°C cSt

13.5

13.7

13.4

ASTM D445 15.4



Unique Number : 11022585 Diagnosed : 13 May 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2

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