

Store 2 - Beaver [RO#148600] JOHN DEERE 460P 1DW460PACPFB06217

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (11 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048858		LEC0040562
	Sample Date		Client Info		15 Apr 2024	04 Jan 2024	30 May 2023
	Machine Age	hrs	Client Info		1653	1036	495
	Oil Age	hrs	Client Info		617	541	495
	Filter Age	hrs	Client Info		617	541	495
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	21	6	40
	Chromium	ppm	ASTM D5185m	>11	1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	2	<1	<1
	Titanium	ppm	ASTM D5185m		3	3	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	2	1
	Lead	ppm	ASTM D5185m	>26	7	2	11
	Copper	ppm	ASTM D5185m	>26	64	30	▲ 596
	Tin	ppm	ASTM D5185m	>4	7	2	16
	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	>!20	6	5	13
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	4	5
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	6.0	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	18.6	23.1
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	0	<1
	Boron	ppm	ASTM D5185m		43	100	193
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		27	21	279
	Manganese	ppm	ASTM D5185m		2	<1	5
	Magnesium	ppm	ASTM D5185m		681	669	787
	Calcium	ppm	ASTM D5185m		1305	1246	1472
	Phosphorus	ppm	ASTM D5185m		1062	888	892
	Zinc	ppm	ASTM D5185m		1148	1125	1066
	Sulfur	ppm	ASTM D5185m		3767	3780	3004
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	12.1	18.1
	Base Number (BN)	mg KOH/g	ASTM D2896		6.8	9.3	8.9
	V/ 0 10000	- 01	AOTM D445		40 5	10 5	10.1

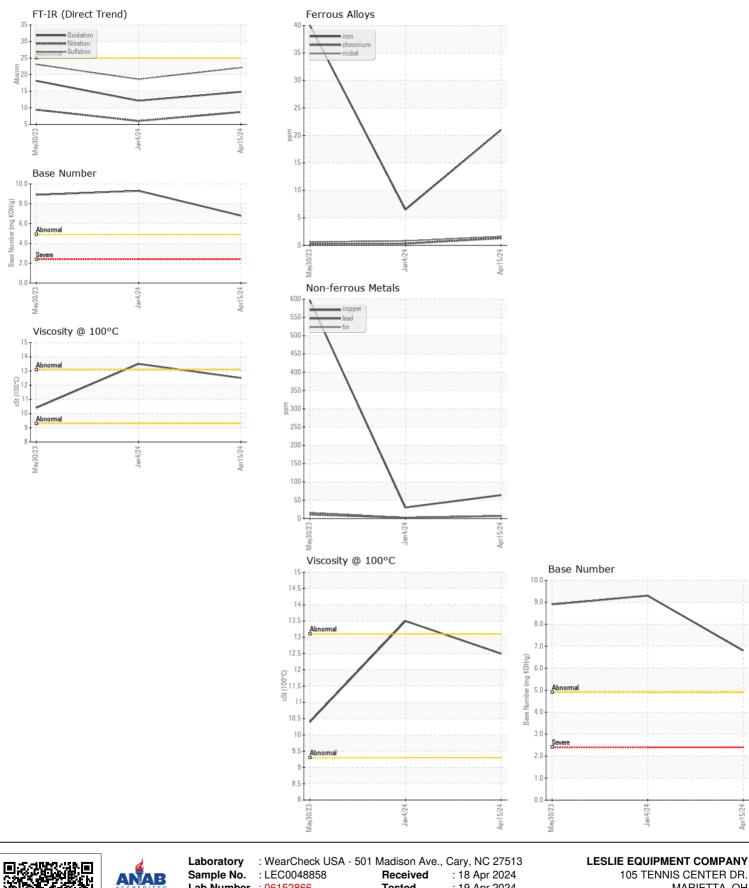
Visc @ 100°C cSt

ASTM D445

13.5

10.4

12.5



Lab Number : 06152866 Tested MARIETTA, OH : 19 Apr 2024 Unique Number : 10982944 Diagnosed : 19 Apr 2024 - Wes Davis US 45750-9765 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570