

Machine Id JOHN DEERE 700L 1T0700LXJNF426587 Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2	28 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0183861	JR0173020	JR0160106
	Sample Date		Client Info		17 Aug 2023	12 May 2023	25 Jan 2023
	Machine Age	hrs	Client Info		1457	970	461
	Oil Age	hrs	Client Info		948	509	461
	Filter Age	hrs	Client Info		948	0	461
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	15	16	19
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	2	2	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m	>31	4	2	3
	Lead	ppm	ASTM D5185m	>26	<1	<1	<1
	Copper	ppm	ASTM D5185m	>26	8	41	4 04
	Tin	ppm	ASTM D5185m	>4	<1	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	8	8
	Potassium	ppm	ASTM D5185m	>20	2	2	0
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	0.6
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.9	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	23.6	21.8
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	4	4
	Boron	ppm	ASTM D5185m		214	222	257
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	1
	Molybdenum	ppm	ASTM D5185m		272	233	221
	Manganese	ppm	ASTM D5185m		1	1	3
	Magnesium	ppm	ASTM D5185m		888	843	739
	Calcium	ppm	ASTM D5185m		1664	1581	1380
	Phosphorus	ppm	ASTM D5185m		923	940	840
	Zinc	ppm	ASTM D5185m		1163	1199	1009
	Sulfur	ppm	ASTM D5185m		3603	3198	3118
	Oxidation	Abs/.1mm	*ASTM D7414		18.7	18.4	16.8
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	8.2	8.0

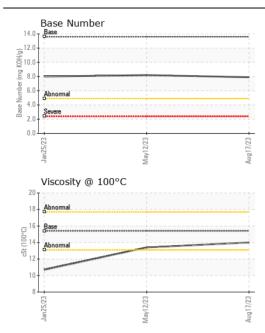
Visc @ 100°C cSt

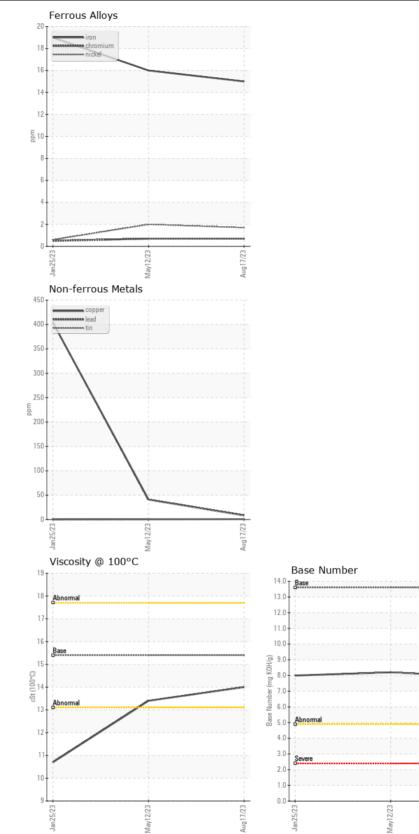
ASTM D445 15.4

13.4

14.0

010.7







 Lab Number
 : 05928562
 Tested
 : 20 Aug 2023

 Unique Number
 : 10608509
 Diagnosed
 : 20 Aug 2023 - Wes Davis

 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 dhuff

 * - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

: 18 Aug 2023

B & S SITE DEVLEOPMENT 7800 PINEY BRANCH LANE BRISTOW, VA US 20136 Contact: DANNY HUFF dhuff@bandssite.com T: (540)270-3203 :2012) F: (703)753-0605

Laboratory

Sample No.

: JR0183861

Submitted By: TECHNICIAN ACCOUNT

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