

Machine Id JOHN DEERE 700L 1T0700LXCLF387949 Component Diesel Engine Fluid

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212772	JR0163341	JR0113019
	Sample Date		Client Info		23 May 2024	16 Mar 2023	04 Jan 2022
	Machine Age	hrs	Client Info		3788	3031	1513
	Oil Age	hrs	Client Info		757	0	1104
	Filter Age	hrs	Client Info		0	0	0
	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	24	7	10
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	0	<1
	Nickel	ppm	ASTM D5185m	>5	2	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	1	0	<1
	Aluminum	ppm	ASTM D5185m	>31	5	2	4
	Lead	ppm	ASTM D5185m	>26	1	0	<1
	Copper	ppm	ASTM D5185m	>26	4	0	6
	Tin	ppm	ASTM D5185m	>4	1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		9	6	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	7.2	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		24.1	20.6	21.9
	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 Emulaified Water	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	1	0
	Boron	ppm	ASTM D5185m		203	239	179
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		253	216	235
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		848	827	875
	Calcium	ppm	ASTM D5185m		1482	1468	1485
	Phosphorus	ppm	ASTM D5185m		935	848	948
	Zinc	ppm	ASTM D5185m		1117	1097	1053
	Sulfur	ppm	ASTM D5185m		3706	3292	2703
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	15.1	16.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	10.0	9.7
	V/ 0 10000	0.	AOTH DAAF	4 5 4	10-	107	10 7

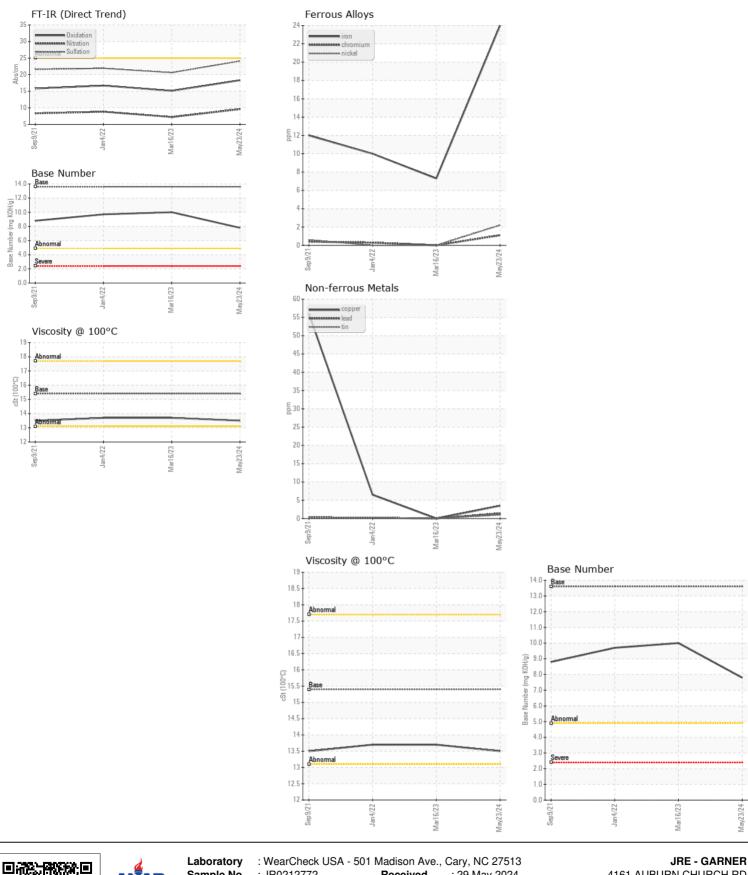
Visc @ 100°C cSt

ASTM D445 15.4

13.7

13.7

13.5



. Sample No. : JR0212772 Received 4161 AUBURN CHURCH RD : 29 May 2024 Lab Number : 06193614 Tested : 30 May 2024 GARNER, NC Unique Number : 11050366 Diagnosed : 30 May 2024 - Sean Felton US 27529 Test Package : CONST (Additional Tests: TBN) Contact: RALEIGH SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432

Submitted By: JOHN GUASCHINO Page 2 of 2