

## [16W16491]

## JOHN DEERE 700L 1T0700LXEMF405259

## **Diesel Engine**

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: 16W16491 )	Sample Number		Client Info		JR0217385		JR0126713
	Sample Date		Client Info		28 Jun 2024		01 Apr 2022
	Machine Age	hrs	Client Info		2986	975	975
	Oil Age	hrs	Client Info		520	975	0
	Filter Age	hrs	Client Info		520	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	11	9	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	5	2	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	3	4	3
	Lead	ppm	ASTM D5185m	>26	0	0	0
	Copper	ppm	ASTM D5185m	>26	2	<1	44
	Tin	ppm	ASTM D5185m	>4	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Cillinea		ASTM D5185m		7	_	
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m		7 0	5 2	6 <1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7644		9.2	9.2	9.7
	Sulfation	Abs/.1mm	*ASTM D7024		22.5	21.3	23.8
	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
						NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	2	3
	Boron	ppm	ASTM D5185m		185	211	242
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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		249	210	234
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		901	774	917
	Calcium	ppm	ASTM D5185m		1639	1260	1642
	Phosphorus	ppm	ASTM D5185m		994	796	1005
	Zinc	ppm	ASTM D5185m		1226	1023	1146
	Sulfur	ppm	ASTM D5185m		3971	3225	2849
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.8	18.5
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1	8.4	9.4
	Vier O 10000	- 01		45.4	40.0	10.0	10.0

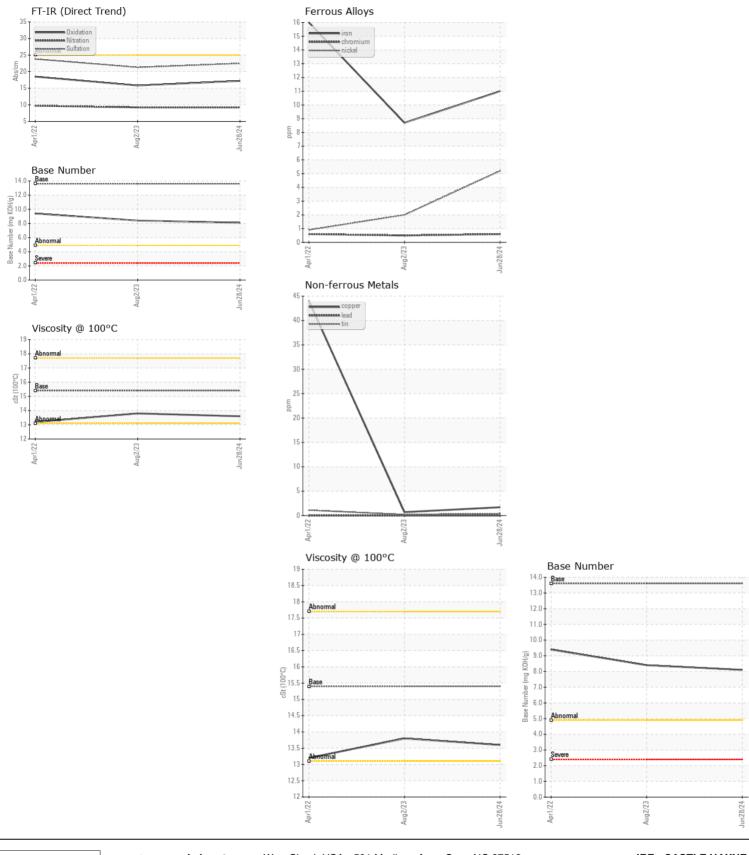
Visc @ 100°C cSt

ASTM D445 15.4

13.2

13.8

13.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - CASTLE HAYNE** Sample No. : JR0217385 Received 113 CROWATAN ROAD : 01 Jul 2024 Lab Number : 06224304 Tested : 02 Jul 2024 CASTLE HAYNE, NC Unique Number : 11102501 Diagnosed : 02 Jul 2024 - Jonathan Hester US 28429-5819 Test Package : CONST (Additional Tests: TBN) Contact: WILMINGTON SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (910)675-9211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: