

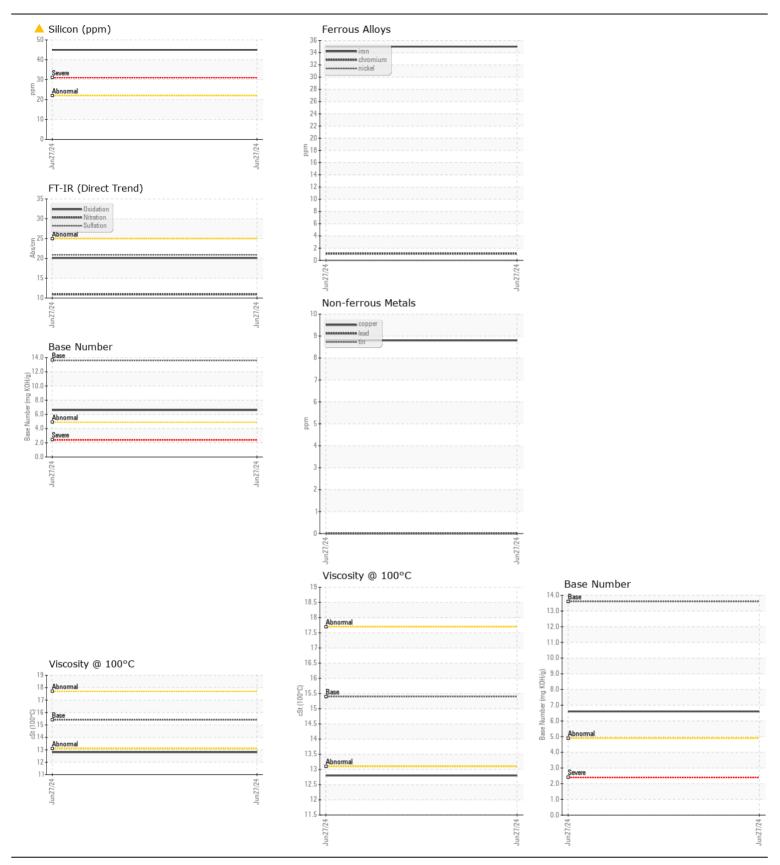
[W45922] Machine Id JOHN DEERE 304L 1LU304LCHZB066095 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION		Test	UOM	Method	Limit/Abn	Current	History1	History2
		Sample Number	0.0111	Client Info	20000000	JR0225706		
Oil and filter change at the time of sampling ha		Sample Date		Client Info		27 Jun 2024		
corrective action is recommended at this time.		Machine Age	hrs	Client Info		555		
service interval to monitor.		Oil Age	hrs	Client Info		555		
		Filter Age	hrs	Client Info		555		
		Oil Changed	1110	Client Info		Changed		
		Filter Changed		Client Info		Changed		
		Sample Status				ABNORMAL		
WEAR		Iron	ppm	ASTM D5185m	>51	35		
All component wear rates are normal.		Chromium	ppm	ASTM D5185m	>11	1		
		Nickel	ppm	ASTM D5185m	>5	0		
		Titanium	ppm	ASTM D5185m		<1		
		Silver	ppm	ASTM D5185m	>3	0		
		Aluminum	ppm	ASTM D5185m	>31	5		
		Lead	ppm	ASTM D5185m		0		
		Copper	ppm	ASTM D5185m		9		
		Tin	ppm	ASTM D5185m		0		
		Vanadium	ppm	ASTM D5185m		<1		
		White Metal	scalar	*Visual	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION		Silicon	ppm	ASTM D5185m	>22	4 5		
Elemental level of silicon (Si) above normal indicating ingress o material.	dianting increase of a set	Potassium	ppm	ASTM D5185m	>20	3		
	licating ingress of sear	Fuel	%	ASTM D3524	>2.1	<1.0		
		Water		WC Method	>0.21	NEG		
		Glycol		WC Method		NEG		
		Soot %	%	*ASTM D7844	>3	0.3		
		Nitration	Abs/cm	*ASTM D7624	>20	10.9		
		Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	NONE		
		Sand/Dirt	scalar	*Visual	NONE	NONE		
		Appearance	scalar	*Visual	NORML	NORML		
		Odor	scalar	*Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	>0.21	NEG		
						•		
FLUID CONDITION		Sodium	ppm	ASTM D5185m	>31	9		
The BN result indicates that there is suitable alkali oil. The condition of the oil is acceptable for the tim		Boron	ppm	ASTM D5185m		91		
		Barium	ppm	ASTM D5185m		2		
		Molybdenum	ppm	ASTM D5185m		27		
		Manganese	ppm	ASTM D5185m		1		
		Magnesium	ppm	ASTM D5185m		827		
		Calcium	ppm	ASTM D5185m		1692		
		Phosphorus	ppm	ASTM D5185m		845		
		Zinc	ppm	ASTM D5185m		1041		
		Sulfur	ppm	ASTM D5185m		4690		
		Oxidation	Abs/.1mm	*ASTM D7414		20.1		
		Base Number (BN)	0 0		13.6	6.6		
		Vice @ 100%	~C+	ACTM D445	15 /	100		

Visc @ 100°C cSt

ASTM D445 15.4

12.8



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Ξĉ Sample No. : JR0225706 Received 9107 OWENS DRIVE : 28 Jun 2024 MANASSAS PARK, VA Lab Number : 06223316 Tested : 01 Jul 2024 Unique Number : 11101513 Diagnosed : 01 Jul 2024 - Don Baldridge US 20111 Test Package : CONST (Additional Tests: FuelDilution, KV40, TBN) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Contact/Location: DON VEST - JAMMAN Page 2 of 2