

[ILA PROPERTIES] Machine Id JOHN DEERE 850L 1T0850LXJPF441941 Diesel Engine

Fluid

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

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RECOMMENDATION Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0209982		
	Sample Date	bro	Client Info		16 May 2024		
	Machine Age Oil Age	hrs	Client Info Client Info		485		
	0	hrs			0		
	Filter Age	hrs	Client Info Client Info		-		
	Oil Changed				Changed		
	Filter Changed Sample Status		Client Info		Changed ABNORMAL		
	Sample Status						
WEAR	Iron	ppm	ASTM D5185m	>51	66		
The nickel level is abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	2		
	Nickel	ppm	ASTM D5185m	>5	A 34		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	8		
	Lead	ppm	ASTM D5185m	>26	3		
	Copper	ppm	ASTM D5185m	>26	15		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon		ASTM D5185m		11		
CONTAMINATION		ppm			14		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m ASTM D3524		11		
	Water	%	WC Method		0.2 NEG		
	Glycol		WC Method	>0.21	NEG		
	Soot %	%	*ASTM D7844	13	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.7		
	Sulfation	Abs/.1mm	*ASTM D7624		21.4		
	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	7		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		233		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		246		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		835		
	Calcium	ppm	ASTM D5185m		1391		
	Phosphorus	ppm	ASTM D5185m		992		
	Zinc	ppm	ASTM D5185m		1118		
	Sulfur	ppm	ASTM D5185m		3512		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6		

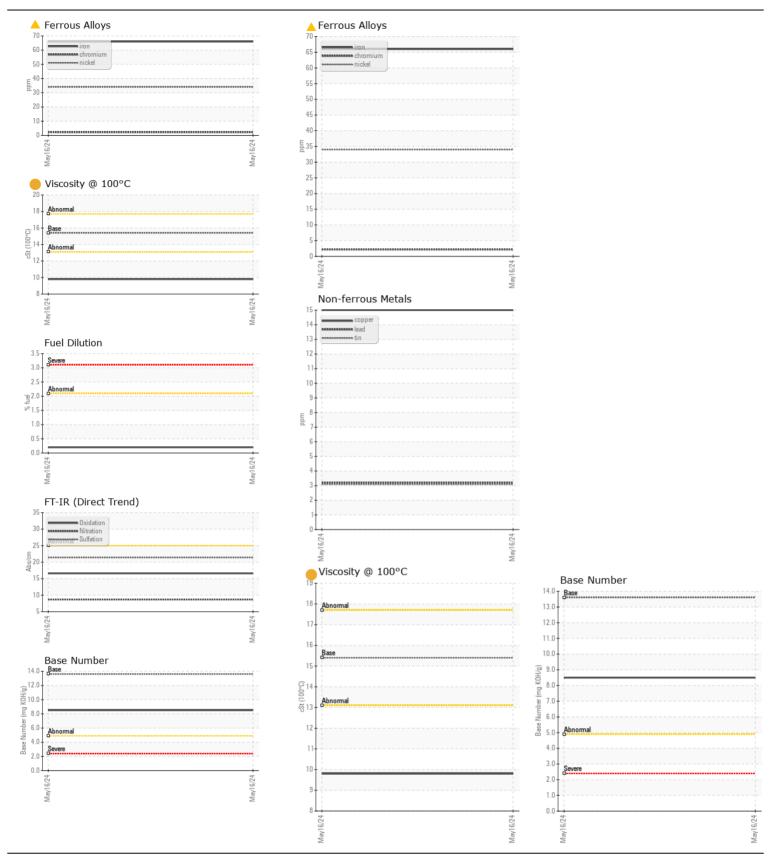
8.5

9.8

Base Number (BN) mg KOH/g ASTM D2896 13.6

ASTM D445 15.4

Visc @ 100°C cSt



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - STEPHENSON** Sample No. : JR0209982 Received 245 YARDMASTER COURT : 21 May 2024 : 24 May 2024 Lab Number : 06185962 Tested STEPHENSON, VA : 24 May 2024 - Don Baldridge US 22656-1761 Unique Number : 11042714 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: PHIL DAUGHERTY Certificate L2367 pdaugherty@jamesriverequipment.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (540)693-2588

Contact/Location: PHIL DAUGHERTY - JAMWIN Page 2 of 2