

Machine Id JOHN DEERE 843L 678437 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- QTS) RECOMMENDATION

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205061	JR0158093	JR0122410
	Sample Date		Client Info		10 Apr 2024	02 Mar 2023	12 Apr 2022
	Machine Age	hrs	Client Info		10154	8510	7421
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	4 76	34	34
Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>11	2	0	<1
	Nickel	ppm	ASTM D5185m	>5	3	<1	3
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	2	3
	Lead	ppm	ASTM D5185m	>26	4 31	0	0
	Copper	ppm	ASTM D5185m	>26	A 39	🔺 240	2
	Tin	ppm	ASTM D5185m	>4	3	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon		ACTM DE105m		10	0	0
CONTAMINATION		ppm	ASTM D5185m		10 3	9 2	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			0.9	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 2	1.2	0.4	0.8
	Nitration	Abs/cm	*ASTM D7624		12.9	9.6	12.0
	Sulfation	Abs/.1mm	*ASTM D7024		25.8	22.8	30.4
	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	>216	4	3	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		29	201	41
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	184	242	220
	Manganese	ppm	ASTM D5185m		2	4	<1
	Magnesium	ppm	ASTM D5185m		529	738	756
	Calcium	ppm	ASTM D5185m		1907	1459	1457
	Phosphorus	ppm	ASTM D5185m		983	828	773
	Zinc	ppm	ASTM D5185m		1193	1050	930
	Sulfur	ppm	ASTM D5185m	4250	3294	2534	2121
	()videt	Abo/ 4 mm	* ^ () T N / [] 7 / / /		n// ^	10 -	

Oxidation

Visc @ 100°C cSt

18.5

8.1

10.0

26.5

13.2

8.1

24.0

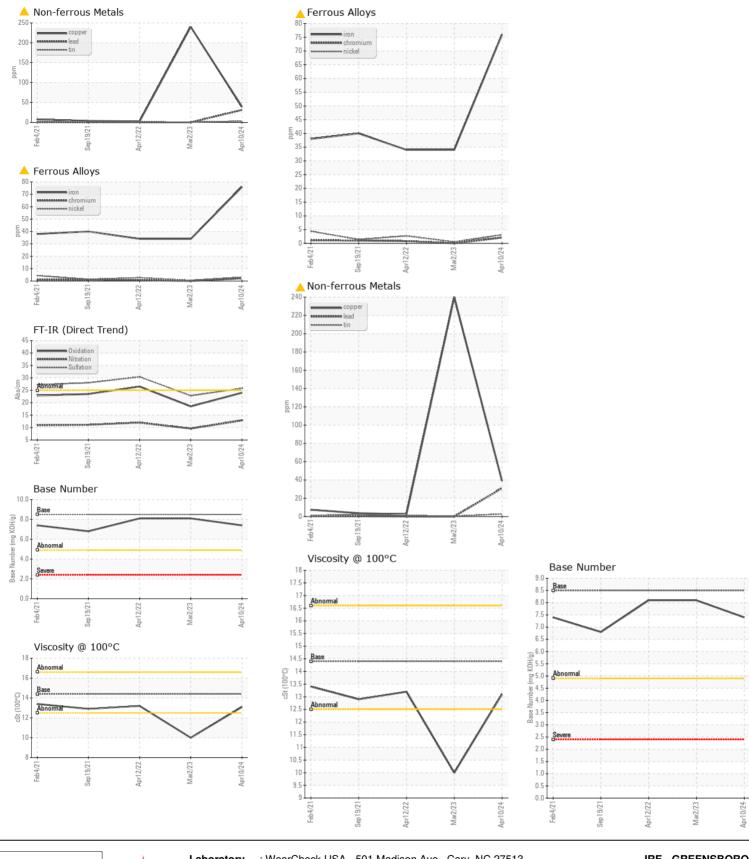
7.4

13.1

Abs/.1mm *ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory **JRE - GREENSBORO** : JR0205061 Received 411 SOUTH REGIONAL ROAD Sample No. : 11 Apr 2024 Lab Number : 06145561 Tested GREENSBORO, NC : 12 Apr 2024 : 14 Apr 2024 - Don Baldridge US 27409 Unique Number : 10970369 Diagnosed Test Package : CONST (Additional Tests: TBN) Contact: NICK GALLAHER Certificate L2367 NGALLAHER@JRENET.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: (336)668-2762 F: (336)665-9556 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: NICK GALLAHER - JAMGRE Page 2 of 2