

Limit/Abn Current

History1

History?

[16W16494] JOHN DEERE 853M 1T0853MXELL389635 - DOOR Diesel Engine

Toet

Mathad

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: 16W16494)

WEAR

Cylinder, crank, or cam shaft wear is indicated.

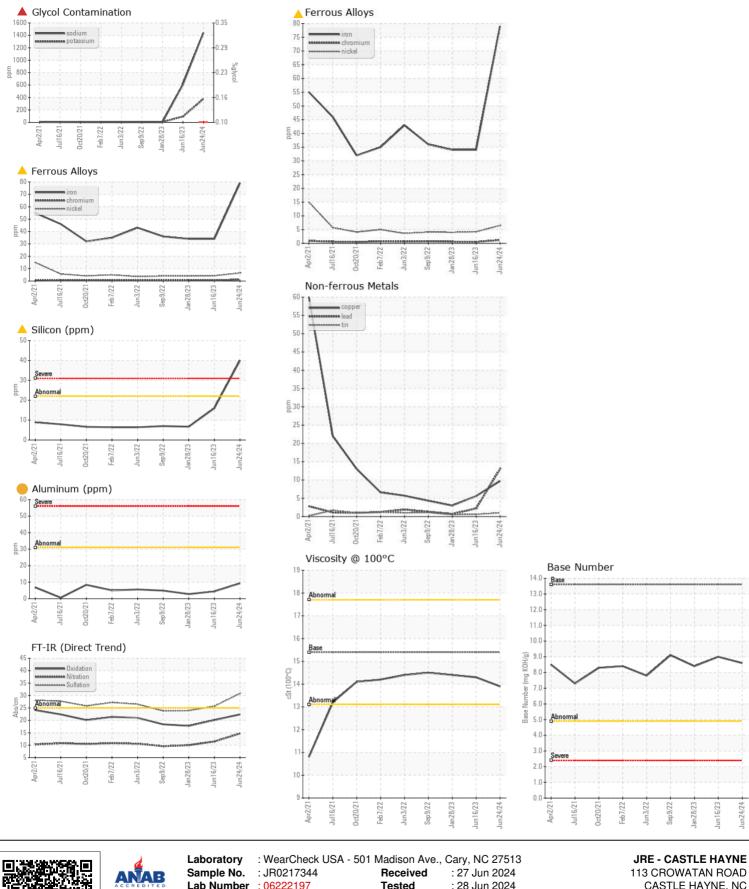
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FLUID CONDITION

Sodium and/or potassium levels are high. Test for glycol is positive. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

	Test	UOM	Method	Limit/Abn	Cu	rrent	History1	History2
	Sample Number		Client Info		JR	0217344	JR0173581	JR0154080
	Sample Date		Client Info		24 、	Jun 2024	16 Jun 2023	28 Jan 2023
	Machine Age	hrs	Client Info		58 ⁻	12	4282	3737
	Oil Age	hrs	Client Info		912	2	545	524
	Filter Age	hrs	Client Info		912	2	545	0
	Oil Changed		Client Info		Ch	anged	Changed	Changed
	Filter Changed		Client Info		Ch	anged	Changed	Changed
	Sample Status				SE	VERE	ABNORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>51		79	34	34
	Chromium	ppm	ASTM D5185m	>11		1	<1	<1
	Nickel	ppm	ASTM D5185m	>5		6	4	4
	Titanium	ppm	ASTM D5185m			<1	0	0
	Silver	ppm	ASTM D5185m	>3		0	0	0
	Aluminum	ppm	ASTM D5185m	>31		9	4	3
	Lead	ppm	ASTM D5185m	>26		13	2	<1
	Copper	ppm	ASTM D5185m	>26	_	10	6	3
	Tin	ppm	ASTM D5185m	>4		1	<1	<1
	Vanadium	ppm	ASTM D5185m			<1	<1	0
	White Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>22		40	16	7
	Potassium	ppm	ASTM D5185m	>20		377	▲ 93	6
	Fuel	pp	WC Method	>2.1	_	<1.0	<1.0	<1.0
	Water		WC Method	>0.21		NEG	NEG	NEG
	Glycol	%	*ASTM D2982			0.10	NEG	NEG
	Soot %	%	*ASTM D7844	>3		1.5	0.9	0.9
	Nitration	Abs/cm	*ASTM D7624	>20		14.7	11.5	10.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	:	30.8	25.7	23.9
	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	scalar	*Visual	NORML		NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21		NEG	NEG	NEG
	Sodium		ASTM D5185m	>31		1443	6 09	1
	Boron	ppm ppm	ASTM D5185m	>01		8	12	104
	Barium		ASTM D5185m				0	0
	Molybdenum	ppm	ASTM D5185m			1 289	0 249	0 224
	Manganese	ppm	ASTM D5185m			209 <1	<1	<1
	Magnesium	ppm	ASTM D5185m			<1 841	768	654
	Calcium	ppm ppm	ASTM D5185m			1556	1541	1696
	Phosphorus	ppm	ASTM D5185m			1246	806	914
	Zinc	ppm	ASTM D5185m			1240	1013	1133
	Sulfur	ppm	ASTM D5185m			3103	3045	2894
	Oxidation	Abs/.1mm	*ASTM D5105111	>25		22.4	20.1	17.8
	Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	13.6		22. 4 8.6	9.0	8.4
	Visc @ 100°C	cSt	ASTM D2030 ASTM D445	15.4		13.9	14.3	14.4
		501		10.7			14.0	17.7

The oil is no longer serviceable due to the presence of contaminants.



Lab Number : 06222197 Tested CASTLE HAYNE, NC : 28 Jun 2024 : 28 Jun 2024 - Don Baldridge US 28429-5819 Unique Number : 11100394 Diagnosed Test Package : CONST (Additional Tests: Glycol, TBN) Contact: WILMINGTON SHOP Certificate L2367 todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we 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: (910)675-9211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: