

## [16W16630] Machine Id JOHN DEERE 853M 1T0853MXELL389635 - DOOR Component Diesel Engine Fluid

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

RECOMMENDATION
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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: 16W16630)

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All component wear rates are normal.

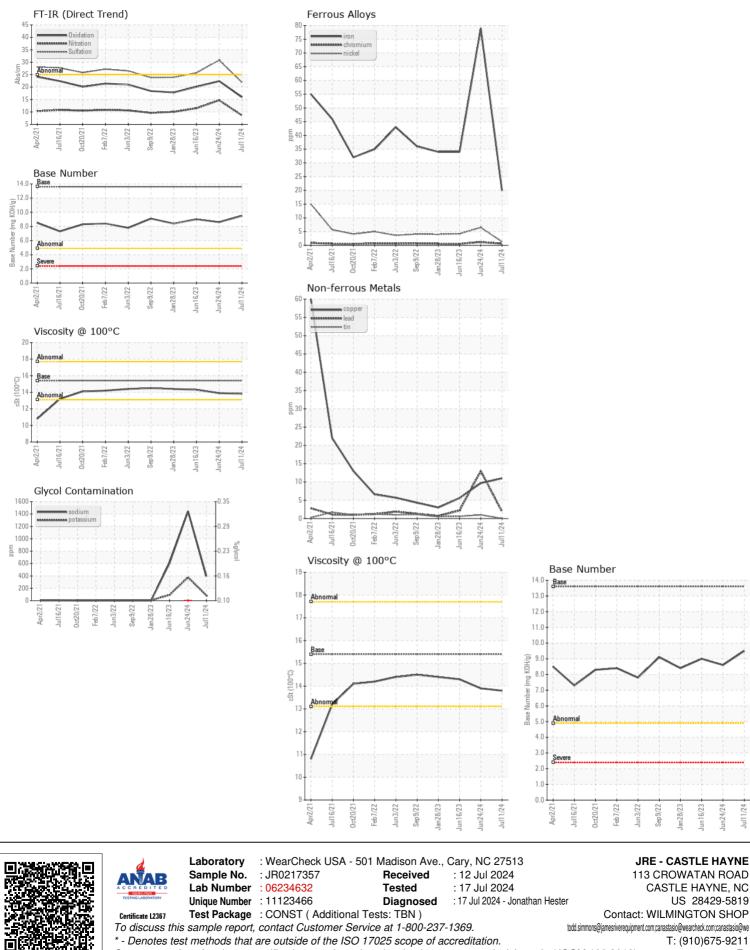
## CONTAMINATION

Sodium and/or potassium levels remain high.

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217357	JR0217344	JR0173581
Sample Date		Client Info		11 Jul 2024	24 Jun 2024	16 Jun 2023
Machine Age	hrs	Client Info		5878	5812	4282
Oil Age	hrs	Client Info		66	912	545
Filter Age	hrs	Client Info		66	912	545
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>51	20	<b>1</b> 79	34
Chromium	ppm	ASTM D5185m	>11	<1	1	<1
Nickel	ppm	ASTM D5185m	>5	1	6	4
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	9	4
Lead	ppm	ASTM D5185m	>26	2	13	2
Copper	ppm	ASTM D5185m	>26	11	10	6
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	15	40	16
Potassium	ppm	ASTM D5185m	>20	<b>A</b> 85	<b>3</b> 77	<b>9</b> 3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	▲ 0.10	NEG
Soot %	%	*ASTM D7844	>3	0.4	1.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	8.6	14.7	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	30.8	25.7
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	nom	ASTM D5185m	<b>2</b> 1	<b>4</b> 394	A 1/40	600
Sodium	ppm		>31		▲ 1443 8	▲ 609
Boron	ppm	ASTM D5185m		156		12
Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0 266	1 289	0 249
-	ppm					<1
Manganese	ppm	ASTM D5185m ASTM D5185m		0	<1 841	
Magnesium	ppm	ASTM D5185m ASTM D5185m		800		768
Calcium	ppm			1456	1556	1541
Phosphorus	ppm	ASTM D5185m		983	1246	806
Zinc	ppm	ASTM D5185m		1085	1197	1013
Sulfur	ppm	ASTM D5185m	05	2774	3103	3045
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	22.4	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.5	8.6	9.0
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.3



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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