

[W20742-MOORE] Machine Id JOHN DEERE 4066R 1LV4066RVLL408167

Diesel Engine

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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V	VI	E	/	4	F	2									

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

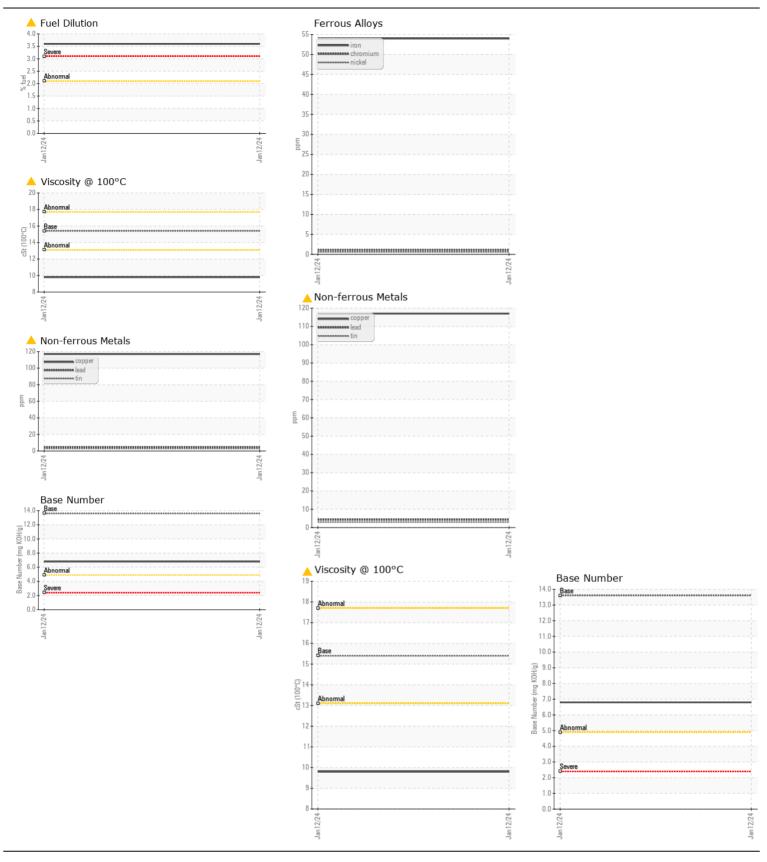
CONTAMINATION

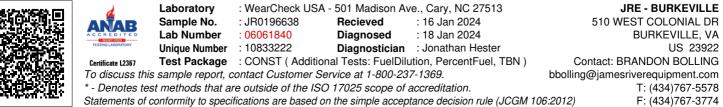
Light fuel dilution occurring.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Cu	ırrent	History1	History2
Sample Number		Client Info		JR	0196638		
Sample Date		Client Info		12	Jan 2024		
Machine Age	hrs	Client Info		30	1		
Oil Age	hrs	Client Info		30	1		
Filter Age	hrs	Client Info		30	1		
Oil Changed		Client Info		Ch	nanged		
Filter Changed		Client Info			anged		
Sample Status					NORMAL		
Iron	ppm	ASTM D5185m	>51		54		
Chromium	ppm	ASTM D5185m	>11		1		
Nickel	ppm	ASTM D5185m	>5		<1		
Titanium	ppm	ASTM D5185m			<1		
Silver	ppm	ASTM D5185m	>3		<1		
Aluminum	ppm	ASTM D5185m	>31		11		
Lead	ppm	ASTM D5185m	>26		4		
Copper	ppm	ASTM D5185m	>26		117		
Tin	ppm	ASTM D5185m	>4		3		
Vanadium	ppm	ASTM D5185m			<1		
White Metal	scalar	*Visual	NONE		NONE		
Yellow Metal	scalar	*Visual	NONE		NONE		
	·····						
Silicon	ppm	ASTM D5185m	>22		52		
Potassium	ppm	ASTM D5185m	>20		<1		
Fuel	%	ASTM D3524	>2.1		3.6		
Water		WC Method	>0.21		NEG		
Glycol		WC Method			NEG		
Soot %	%	*ASTM D7844	>3		0.3		
Nitration	Abs/cm	*ASTM D7624	>20		9.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30		20.1		
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		*Visual	>0.21		NEG		
Sodium	ppm		>31		16		
Boron	ppm	ASTM D5185m			149		
		AOTH DELOF			_		
Barium	ppm	ASTM D5185m			4		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m			4 203		
Molybdenum	ppm	ASTM D5185m			203		
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m			203 2		
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m			203 2 604		
Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m			203 2 604 1785 827	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m			203 2 604 1785 827 1046	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25		203 2 604 1785 827 1046 3421	 	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 13.6		203 2 604 1785 827 1046	 	





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Contact/Location: BRANDON BOLLING - JAMBUR

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