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JOHN DEERE 544G 1YN544GAEPLA00285

Diesel Engine

{not provided} (--- GAL)

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. Please specify the brand, type, and viscosity of the oil on your next sample.

W	EAR	

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.

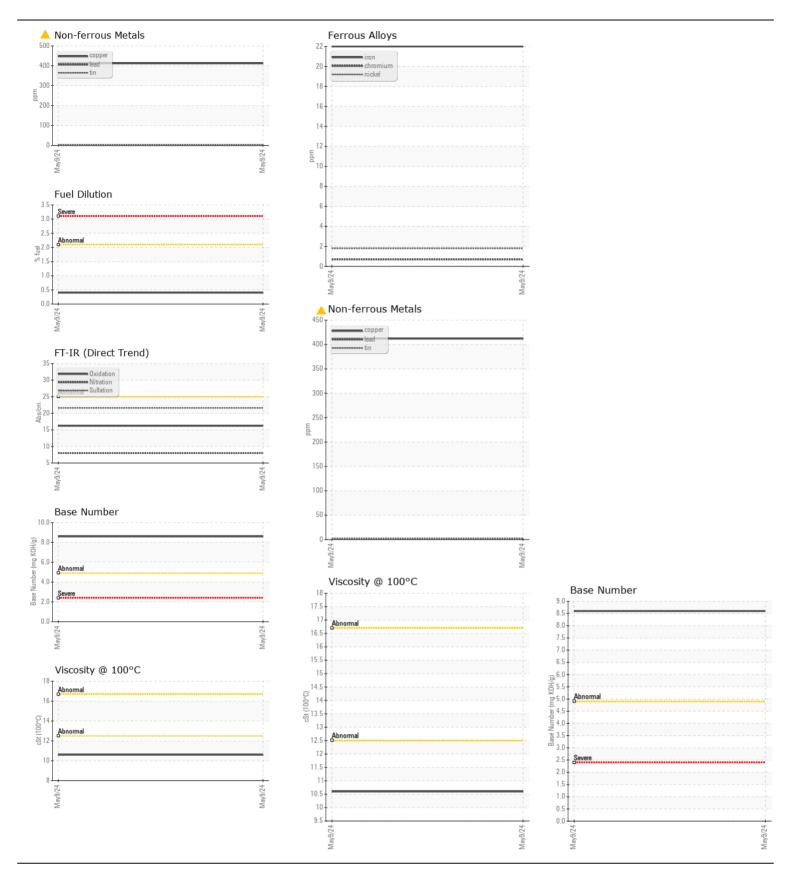
CONTAMINATION

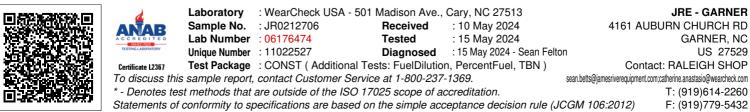
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Test UOM Method Limi/Abs Current History1 History2 Sample Number Client Info 98 May 2024					~~~~~		
Sample Date Client Info 99 May 2024 Machine Age hrs Client Info 444 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Filter Age Client Info Changed Sample Status ABNORMAI Sample Status ABNORMAI Nickel ppm ASTM D5185m >51 22 Nickel ppm ASTM D5185m >5 2 Silver ppm ASTM D5185m >31 4 Silver ppm ASTM D5185m >26 4 12 Lead ppm ASTM D5185m >22 11 Yanadium ppm ASTM D5185m >22	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 444 Oil Age hrs Client Info 0 Filter Age hrs Client Info Changed Filter Changed Client Info Changed Sample Status ABNORMAL Nickel ppm ASTM D5185m >51 22 Nickel ppm ASTM D5185m >51 2 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >26 1 Copper ppm ASTM D5185m >26 1 Vanadium ppm ASTM D5185m >26 1 Vanadium ppm ASTM D5185m >22 11 Vanadium <	Sample Number		Client Info		JR0212706		
Oil Age hrs Client Info 444 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >51 22 Nickel ppm ASTM D5185m >5 2 Nickel ppm ASTM D5185m >5 2 Silver ppm ASTM D5185m >31 4 Aluminum ppm ASTM D5185m >26 1 Qopper ppm ASTM D5185m >26 4 12 Vanadium ppm ASTM D5185m >26 4 12 Yellow Metal scalar<*Visual NONE NONE	Sample Date		Client Info		09 May 2024		
Fitter Age Inc Inc Inc Inc Inc Inc Fitter Age Client Info Changed Inc In	Machine Age	hrs	Client Info		444		
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Filter Changed Sample Status Client Info Changed ABNORMAL Iron ppm ASTM D5185m >51 22 Chromium ppm ASTM D5185m >51 22 Nickel ppm ASTM D5185m >5 2 Titanium ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >26 1 Lead ppm ASTM D5185m >26 4 12 Yanadium ppm ASTM D5185m >26 4 12 Yellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th></th> <th></th>	Oil Changed		Client Info		Changed		
Iron ppm ASTM D5185m >511 22 Chromium ppm ASTM D5185m >11 <-1 Nickel ppm ASTM D5185m >2 Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >31 4 Lead ppm ASTM D5185m >26 1 Tin ppm ASTM D5185m >26 412 Vanadium ppm ASTM D5185m >4 3 Wated scalar *Visual NONE NONE Sulfation ppm ASTM D5185m >22 11 Vanadium ppm ASTM D5185m >22 14 Valow Metal scalar *Visual NONE	-		Client Info		Changed		
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Vanadium ppm ASTM D5185m <1		ppm	ASTM D5185m	>4	3		
White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >22 11 Potassium ppm ASTM D5185m >20 4 Fuel % ASTM D5185m >20 4 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Sot % % *ASTM D7624 >20 8.0 Sulfation Abs/cm<*ASTM D7624 >20 8.0 Sulfation Abs/cm<*ASTM D7624 >20 8.0 Sulfation Scalar *Visual NONE NONE Sulfation scalar *Visual NORM NORML	Vanadium	ppm	ASTM D5185m		<1		
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Potassium ppm ASTM D5185m >20 4 Fuel % ASTM D3524 >2.1 0.4 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 Sulfation Abs/.1mm *ASTM D7624 >0 21.6 Sulfation Abs/.1mm *ASTM D7624 >0 21.6 Sulfation Abs/.1mm *ASTM D7624 >0 NONE Debris scalar *Visual NONE NONE							
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Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 Sulfation Abs/cm *ASTM D7615 >30 21.6 Sulfation Abs/cm *Visual NONE NONE Sulfation Abs/cm *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORM NORML Appearance scalar *Visual NORM NORML Odor scalar *Visual NORM NORML Boron ppm ASTM D5185m >31 2 Malganese ppm ASTM D5185m	Fuel	%	ASTM D3524	>2.1	0.4		
Soot % % *ASTM D7844 >3 0.2 Nitration Abs/cm *ASTM D7624 >20 8.0 Sulfation Abs/.1mm *ASTM D7415 >30 21.6 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual >0.21 NEG Odor scalar *Visual >0.21 NEG Boron ppm ASTM D5185m<>31 2 Magnesium pp	Water		WC Method	>0.21	NEG		
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Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m>312BoronppmASTM D5185m>316BariumppmASTM D5185m5MolybdenumppmASTM D5185m229MagnesiumppmASTM D5185m4PhosphorusppmASTM D5185m1378ZincppmASTM D5185m1044SulfurppmASTM D5185m30322SulfurppmASTM D5185mSulfurkb:/im'ASTM D5185mSulfurppmASTM D5185mSulfurkb:/im'ASTM D5185mSulfurkb:/im'ASTM D5185m	Nitration	Abs/cm	*ASTM D7624	>20	8.0		
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Calcium ppm ASTM D5185m 1378 Phosphorus ppm ASTM D5185m 926 Zinc ppm ASTM D5185m 1044 Sulfur ppm ASTM D5185m 3032 Oxidation Abs/.1mm *ASTM D7414<>25 16.2 Base Number (BN) mg KOH/g ASTM D2896 8.6	-						
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Oxidation Abs/.1mm *ASTM D7414 >25 16.2 Base Number (BN) mg KOH/g ASTM D2896 8.6							
Base Number (BN) mg KOH/g ASTM D2896 8.6		ppm	ASTM D5185m				
		Abs/.1mm		>25			
Visc @ 100°C cSt ASTM D445 10.6	()	mg KOH/g			8.6		
	Visc @ 100°C	cSt	ASTM D445		10.6		

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.





Submitted By: RALEIGH SHOP Page 2 of 2