

Machine Id JOHN DEERE 4024R PE4024R143162 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199430		
Sample Date		Client Info		23 Jan 2024		
	hrs	Client Info		600		
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0						
-	1110					
0						
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Iron	ppm	ASTM D5185m	>51	<1		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel		ASTM D5185m	>5	0		
Titanium		ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum		ASTM D5185m	>31	<1		
Lead		ASTM D5185m	>26	0		
Copper		ASTM D5185m	>26	0		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium		ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal		*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>22	6		
Potassium	ppm	ASTM D5185m	>20	0		
Fuel	%	ASTM D3524	>2.1	🛑 16.2		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0		
Nitration	Abs/cm	*ASTM D7624	>20	4.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
		1.00.00				
Sand/Dirt	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual	NONE NORML	NONE NORML		
Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML >0.21	NONE NORML NORML NEG		
Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NORML NEG		
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NORML NEG 1 57	 	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NEG 1 57 0		
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NEG 1 57 0 39	 	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NEG 1 57 0 39 0	 	
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NEG 1 57 0 39 0 436		
Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.21	NONE NORML NEG 1 57 0 39 0	 	
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmWhite MetalscalarYellow MetalscalarSiliconppmFuel%WaterGlycolSoot %%NitrationAbs/cmSulfationAbs/.1mmSiltscalar	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoNickelppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mTinppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM 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InfoN/AFilter ChangedClient InfoN/ASample StatusSEVEREIronppmASTM D5185m>51ChromiumppmASTM D5185m>51NickelppmASTM D5185m>5NickelppmASTM D5185m>31AluminumppmASTM D5185m>26OOASTM D5185m>260CopperppmASTM D5185m>260TinppmASTM D5185m>260White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM D5185m>200Fuel%ASTM</th><th>Sample NumberClient InfoJR0199430Sample DateClient Info23 Jan 2024Machine AgehrsClient Info600Oil AgehrsClient Info0Filter AgehrsClient InfoN/AOil ChangedClient InfoN/AFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusSEVEREIronppmASTM D5185m>51<1ChromiumppmASTM D5185m>50NickelppmASTM D5185m>30SilverppmASTM D5185m>31<1LeadppmASTM D5185m>260VanadiumppmASTM D5185m>260VanadiumppmASTM D5185m>260VanadiumppmASTM D5185m>260VanadiumppmASTM D5185m>200SiliconppmASTM D5185m>226Fuel%ASTM D5185m>200SiliconppmASTM D5185m>200Fuel%ASTM D5185m>200SiliconppmASTM D5185m>200Fuel%ASTM D5185m>20<t< th=""></t<></th></tr<>	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoFilter ChangedClient InfoSample StatusSample StatusIronppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSiliconppmASTM D5185mYellow Metalscalar*VisualYellow Metalscalar*VisualSiliconppmASTM D5185mSiliconppmASTM D5185mSuiliconppmASTM D5185mSuiliconppmASTM D5185mSuiliconppmASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon%*ASTM D5185mSuilicon<	Sample NumberClient InfoJR0199430Sample DateClient Info23 Jan 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D5185m>200Fuel%ASTM D5185m>20 <t< th=""></t<>

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

964

2495

15.2

9.2

8.6

ASTM D5185m

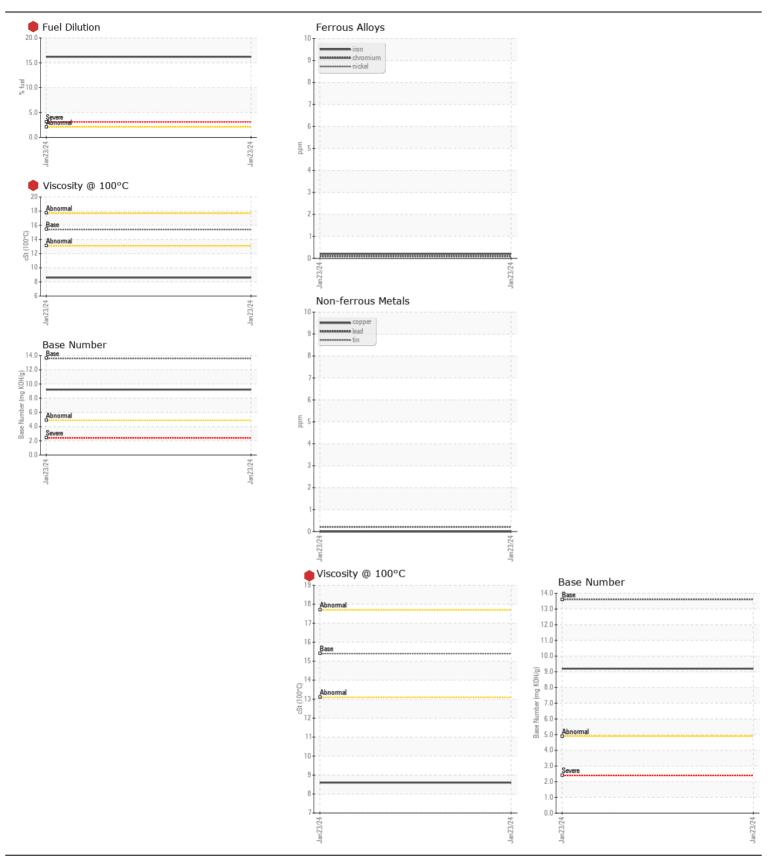
ASTM D445 15.4

Abs/.1mm *ASTM D7414 >25

ppm ASTM D5185m

ppm

Base Number (BN) mg KOH/g ASTM D2896 13.6



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0199430 Received :07 Feb 2024 9107 OWENS DRIVE Lab Number : 06082951 Tested :09 Feb 2024 MANASSAS PARK, VA Unique Number : 10870396 Diagnosed : 09 Feb 2024 - Wes Davis US 20111 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715