WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

JOHN DEERE 6430 L06430H570453

Diesel Engine

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

Test	JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)				.,		
Resample at the next service interval to monitor. Sample Date Client Info So So So So So So So	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info Machine Age hrs Client Info So Co Co Co Co Co Co C								
Machine Age hrs Client Info 50	Resample at the next service interval to monitor.							
Oil Age			hrs					
Oil Changed Client Info Not Changed Client Info Sample Status Client Info Not Changed Client Info Client Info		Oil Age	hrs	Client Info		50		
Filter Changed Client Info Not Changed Normal All Normal Normal All Normal N		Filter Age	hrs	Client Info		0		
Normal N		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		Not Changd		
Chromium ppm ASTM Distilies 51 0 0		Sample Status				NORMAL		
Chromium ppm ASTM Distilies 51 0 0	WEAR	Iron	nnm	ACTM DE195m	<u>. 51</u>	24		
Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >6 4 Copper ppm ASTM D5185m >26 7 Titanium ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 7 Value valu	WEAR							
Titanium ppm ASTM 05185m 3	All component wear rates are normal.							
Silver					>5			
Aluminum ppm ASTM D5185m >31 10					0			
Lead ppm ASTM D5185m >26 4								
Copper								
Tin								
Vanadium Vanadium								
White Metal Yellow Metal Scalar "Visual NONE LIGHT NONE					>4			
Yellow Metal Scalar *Visual NONE NONE					NONE	-		
Silicon ppm ASTM D5185m >22 8								
Potassium ppm ASTM D5185m 2-0 -1		Yellow Metal	scalar	*Visual	NONE	NONE		
Fuel WC Method >2.1 <1.0	CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8		
Water WC Method 2-1 NEG		Potassium	ppm	ASTM D5185m	>20	<1		
Glycol		Fuel		WC Method	>2.1	<1.0		
Soot %		Water		WC Method	>0.21	NEG		
Nitration Abs/cm *ASTM D7624 >20 6.1		Glycol		WC Method		NEG		
Sulfation Abs/.tmm 'ASTM D7415 >30 19.7 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML		Soot %	%	*ASTM D7844	>3	0.1		
Silt Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NORML		Nitration	Abs/cm	*ASTM D7624	>20	6.1		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML NORML NORML Scalar *Visual NORML NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7		
Sand/Dirt Scalar *Visual NONE NONE NONE NORML NORM		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORML Codor Scalar *Visual NORML NORML Codor Scalar *Visual NORML NORML NORML Codor Scalar *Visual NORML NOR		Debris	scalar	*Visual	NONE	NONE		
Codor Emulsified Water Scalar *Visual NORML NORML		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.21 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m >31 6		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 267		Emulsified Water	scalar	*Visual	>0.21	NEG		
Boron ppm ASTM D5185m 267	ELLID CONDITION			AOTM DE LOE	0.1			
Barium ppm ASTM D5185m Q Molybdenum ppm ASTM D5185m Q Magnesium ppm ASTM D5185m Q Q Calcium ppm ASTM D5185m D D D D D Phosphorus ppm ASTM D5185m D D D D Zinc ppm ASTM D5185m D D D D Sulfur ppm ASTM D5185m D D D D D Sulfur ppm ASTM D5185m D D D D D Sulfur ppm ASTM D5185m D D D D D Sulfur ppm ASTM D5185m D D D D D Sulfur ppm ASTM D5185m D D D D D D Sulfur ppm ASTM D5185m D D D D D D D D Sulfur ppm ASTM D5185m D D D D D D D D D	FLUID CONDITION				>31			
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 241 Manganese ppm ASTM D5185m 866 Calcium ppm ASTM D5185m 1547 Phosphorus ppm ASTM D5185m 990 Zinc ppm ASTM D5185m 1185 Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m 866 Calcium ppm ASTM D5185m 1547 Phosphorus ppm ASTM D5185m 990 Zinc ppm ASTM D5185m 1185 Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7								
Calcium ppm ASTM D5185m 1547 Phosphorus ppm ASTM D5185m 990 Zinc ppm ASTM D5185m 1185 Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7								
Phosphorus ppm ASTM D5185m 990 Zinc ppm ASTM D5185m 1185 Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7		•						
Zinc ppm ASTM D5185m 1185 Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7								
Sulfur ppm ASTM D5185m 3862 Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7								
Oxidation Abs/.1mm *ASTM D7414 >25 14.3 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7								
Base Number (BN) mg KOH/g ASTM D2896 13.6 9.7					0.5			
Visc @ 100°C cSt ASTM D445 15.4 14.5								
		Visc @ 100°C	cSt	ASTM D445	15.4	14.5		





Certificate L2367

Laboratory Sample No.

Lab Number : 06193234 Unique Number : 11049986

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0210859 Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 28 May 2024 : 30 May 2024 : 30 May 2024 - Wes Davis

JRE - BURKEVILLE 510 WEST COLONIAL DR BURKEVILLE, VA US 23922

Contact: BRANDON BOLLING bbolling@jamesriverequipment.com T: (434)767-5578

Contact/Location: BRANDON BOLLING - JAMBUR

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

F: (434)767-3774