

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



JOHN DEERE 550K 103144/550K (S/N 1T0550KKHMF392834)

Diesel Engine

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

Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info Sample Date Client Info Sample Date Client Info Source	JOHN DELIE LINGING OIL PEG	3 30 II 13W	 -) 0 -	GAL				
Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info Sample Date Client Info Sample Date Client Info Sound Cl	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 28 Jan 2024		Sample Number		Client Info			,	
Oil Age		Sample Date				26 Jan 2024		
Filter Age		Machine Age	hrs	Client Info		1304		
Circhanged Cilcent Info Cilcen		Oil Age	hrs	Client Info		500		
Filter Changed Sample Status		•	hrs	Client Info		500		
VEAR		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		N/A		
All component wear rates are normal. Chromium ppm ASTM D6186m 5 <1		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASTM D5188m 5 5 5 5 5 5 5 5 5	WEAD	luan		ACTM DE10E		40		
Nickel ppm ASTM D5185m >5 <1 Titanium ppm ASTM D5185m >5 <1 Titanium ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >31 8 Lead ppm ASTM D5185m >26 2 Copper ppm ASTM D5185m >26 2 Vanadium ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >20 1 Vanadium ppm ASTM D5185m >20 1 Visual NONE NONE Visual NONE Visual NONE Visual NONE Visual NONE Visual NONE Visual NONE	WEAR							
Titanium ppm ASTM D5185m 30 0	All component wear rates are normal.							
Silver ppm ASTM D5185m >3 0					>5			
Aluminum					. 0			
Lead								
Copper								
Tin								
Vanadium Vanadium								
White Metal Scalar *Visual NONE NO					74			
Vellow Metal scalar Visual NONE NONE CONTAMINATION There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 1 Fuel WC Method >0.21 NEG Water WC Method >0.21 NEG Silt Scalar Visual NONE NEG Silt Scalar Visual NONE NONE Sand/Dirt Scalar Visual NONE NONE Appearance Scalar Visual NORML NORML Solium Pom ASTM D5185m Scalar Visual NORML Solium Pom ASTM D5185m 233 Silt Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML Scalar Visual NORML NORML NORML -					NONE			
Silicon ppm ASTM D5185m >120 8								
Potassium ppm ASTM D5185m >20 1 Fuel WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 NEG Glycol WC Method >0.21 NEG NEG NEG				VIOUGI	TVOIVE			
Potassium ppm ASTM D5185m >20 1 Fuel WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 Water WC Method >2.1 <1.0 NEG Glycol WC Method >0.21 NEG NEG NEG	CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	8		
Water WC Method O.21 NEG		Potassium	ppm	ASTM D5185m	>20	1		
Glycol	There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0		
Soot % % 'ASTM D7844 >3		Water		WC Method	>0.21	NEG		
Nitration Abs/cm *ASTM D7624 >20 9.5 Sulfation Abs/lmm *ASTM D7415 >30 21.7 Silt scalar *Visual NONE NORML		Glycol		WC Method		NEG		
Sulfation Abs./imm *ASTM D7415 >30 21.7 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	0.5		
Silt Scalar *Visual NONE NORML NOR		Nitration	Abs/cm	*ASTM D7624	>20	9.5		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE Scalar *Visual NORML NORML NORML NORML Scalar *Visual NORML NOR		Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7		
Sand/Dirt Scalar *Visual NONE NORML NORML		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML NORML Emulsified Water Scalar *Visual NORML		Debris	scalar	*Visual	NONE			
Oddr		Sand/Dirt	scalar	*Visual				
Emulsified Water scalar *Visual >0.21 NEG			scalar	*Visual		_		
Sodium ppm ASTM D5185m >31 2								
Boron ppm ASTM D5185m 0		Emulsified Water	scalar	*Visual	>0.21	NEG		
Boron ppm ASTM D5185m 0	ELUID CONDITION	Sodium	nnm	ACTM DE105m	. 21	2		
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. Barium ppm ASTM D5185m 247 Molybdenum ppm ASTM D5185m 247 Manganese ppm ASTM D5185m 811 Calcium ppm ASTM D5185m 1354 Phosphorus ppm ASTM D5185m 873 Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5	TEGID CONDITION				<i>></i> 01			
Molybdenum ppm ASTM D5185m 247 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 811 Calcium ppm ASTM D5185m 1354 Phosphorus ppm ASTM D5185m 873 Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5	, ,							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m 811 Calcium ppm ASTM D5185m 1354 Phosphorus ppm ASTM D5185m 873 Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5		•						
Calcium ppm ASTM D5185m 1354 Phosphorus ppm ASTM D5185m 873 Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5								
Phosphorus ppm ASTM D5185m 873 Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5		•						
Zinc ppm ASTM D5185m 1070 Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5								
Sulfur ppm ASTM D5185m 2890 Oxidation Abs/.1mm *ASTM D7414 >25 16.5		•						
Oxidation								
					>25			
		Base Number (BN)				9.0		
Visc @ 100°C cSt ASTM D445 15.4 13.5		, ,						







Laboratory Sample No. Lab Number **Unique Number**

: 06074333 : 10856424

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0044552 Recieved : 30 Jan 2024 Diagnosed : 31 Jan 2024

Diagnostician : Sean Felton Test Package : CONST (Additional Tests: TBN)

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)

BRIDGEPORT EQUIPMENT & TOOL

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