



WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Store 4 - Fairmont

JOHN DEERE 644K 1DW644KZLEF658244

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

Resample at the next service interval to monitor. Sample Number Sample Date Client Info 174 no 2024	JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)								
Resample at the next service interval to monitor. Sample Date Client Info 17 Jan 2024	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2	
Resample at the next service interval to monitor. Sample Date Machine Age hrs Client Info 11748								,	
Machine Age hrs Client Info 500	Resample at the next service interval to monitor.	•				17 Jan 2024			
Filter Age			hrs	Client Info					
Client Info Not Changed Client Info Client Info Client Info Not Changed Client Info		Oil Age	hrs	Client Info		500			
Filter Changed Sample Status		Filter Age	hrs	Client Info		500			
VEAR		Oil Changed		Client Info		Not Changd			
Iron		Filter Changed		Client Info		Not Changd			
All component wear rates are normal. Chromium ppm ASTM D5185m >11 <1		Sample Status				NORMAL			
All component wear rates are normal. Chromium ppm ASTM D5185m >11 <1	WEAD			AOTM DEGOE					
Nickel ppm ASTM D5185m >5 2	WEAR								
Titanium ppm ASTM D5185m 0	All component wear rates are normal.								
Silver ppm ASTM D5185m >3 0					>5				
Aluminum ppm ASTM D5185m >31 5					. 0				
Lead ppm ASTM D5185m >26 <1 Copper ppm ASTM D5185m >26 8 Tin ppm ASTM D5185m >26 8 Tin ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Vanadium ppm ASTM D5185m <1 Visual NONE NONE Visual NONE NONE Visual NONE NONE There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m >20 6 Potassium ppm ASTM D5185m >20 6 Visual NONE NONE Water WC Method NEG Glycol WC Method NEG Sulfation Abs/:mm ASTM D7844 >3 0.4 Sulfation Abs/:mm ASTM D7845 >30 16.9 Sulfation Abs/:mm ASTM D7845 >30 16.9 Sulfation Abs/:mm ASTM D7845 >30 16.9 Sand/Dirt scalar Visual NONE NONE ASTM D7845 Soular NONE NONE Sand/Dirt scalar Visual NONE NONE ASTM D7845 Soular NONE NONE The BN result indicates that there is suitable alkalinity remaining in the oil The condition of the oil is suitable for further service Barium ppm ASTM D5185m 0									
Copper									
Tin									
Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE There is no indication of any contamination in the oil.									
White Metal Yellow Metal Scalar *Visual NONE NONE NONE NONE Yellow Metal Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE					77				
Yellow Metal scalar *Visual NONE NONE					NONE				
Silicon ppm ASTM D5185m >120 6									
Potassium ppm ASTM D5185m >20 6		·····							
Potassium ppm ASTM D5185m >20 6	CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	6			
Water WC Method NEG		Potassium	ppm	ASTM D5185m	>20	6			
Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 7.1 Sulfation Abs/.tmm *ASTM D7415 >30 16.9 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORM	There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	<1.0			
Soot %		Water		WC Method	>0.21	NEG			
Nitration Abs/cm		Glycol		WC Method		NEG			
Sulfation Abs/.tmm *ASTM D7415 >30 16.9 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.21 NEG The BN result indicates that there is suitable alkalinity remaining in the oil The condition of the oil is suitable for further service Sodium ppm ASTM D5185m 31 2 Boron ppm ASTM D5185m 41 Barium ppm ASTM D5185m 0		Soot %	%	*ASTM D7844	>3	0.4			
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORM		Nitration							
Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML Scalar *Visual NORML NORML NORML Scalar *Visual NORML Scalar *Visual NORML NORML Scalar *Visual NORML Scalar			Abs/.1mm						
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NO									
Appearance scalar *Visual NORML ORML ODGML									
Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.21 NEG FLUID CONDITION Sodium ppm ASTM D5185m >31 2 Boron ppm ASTM D5185m >31 2 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0									
FLUID CONDITION Sodium ppm ASTM D5185m >31 2 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service Emulsified Water scalar *Visual >0.21 NEG Boron ppm ASTM D5185m >31 2 Barium ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0									
FLUID CONDITION Sodium ppm ASTM D5185m >31 2 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Sodium ppm ASTM D5185m >31 2 Boron ppm ASTM D5185m 41 Barium ppm ASTM D5185m 0									
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 41 Barium ppm ASTM D5185m 0		Emuisified water	scalar	"VISUAI	>0.21	NEG			
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 41 Barium ppm ASTM D5185m 0	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2			
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0				ASTM D5185m					
OIL The Condition of the OILIS SUlfable for further service	, ,								
· J · · · · · · · · · · · · · · ·		Molybdenum	ppm	ASTM D5185m		52			
Manganese ppm ASTM D5185m <1		Manganese	ppm			<1			
Magnesium ppm ASTM D5185m 86		Magnesium	ppm	ASTM D5185m		86			
Calcium ppm ASTM D5185m 2223		Calcium	ppm	ASTM D5185m		2223			
Phosphorus ppm ASTM D5185m 1051		Phosphorus	ppm	ASTM D5185m		1051			
Zinc ppm ASTM D5185m 1254		Zinc	ppm	ASTM D5185m		1254			
Sulfur ppm ASTM D5185m 4041			ppm	ASTM D5185m		4041			
Oxidation									
Base Number (BN) mg KOH/g ASTM D2896 13.6 7.5		(,	0 0						
Visc @ 100°C cSt ASTM D445 15.4 \ 12.6		Visc @ 100°C	cSt	ASTM D445	15.4	12.6			







Laboratory Sample No. Lab Number

Unique Number

: LEC0045999 : 06065451 : 10836833

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024

Diagnosed : 22 Jan 2024 Diagnostician : Don Baldridge

Test Package: CONST (Additional Tests: FuelDilution, 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)

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