



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Store 3 - Norton

JOHN DEERE 748L2 1DW748LBAPF716562

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

Test	JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)								
Dia not little change at the time of sampling has been noted. Resample at the next service interval to monitor. Machine Age Machine Age	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Date Client Info Ser Feb 2024 Client Info Changed		Sample Number		Client Info					
Machine Age hrs		•				26 Feb 2024			
Oil Age hrs Client Into 351			hrs						
Filter Age		•							
Oil Changed Chent Info Changed Changed									
Filter Changed Client Info Changed Cha									
Name									
Iron		-				_			
Metal levels are typical for a new component breaking in. Chromium ppm ASTM 05185m 51 8									
Nickel ppm ASTM 05185m 55 8	WEAR	Iron	ppm	ASTM D5185m	>51	30			
Titanium Dim ASTIN Disistim Compare Dim ASTIN Disistim Compare Dim Disistim Dim Dim Disistim Dim D	Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	1			
Silver ppm ASTM D5185m >3 0		Nickel	ppm	ASTM D5185m	>5	8			
Aluminum ppm ASTM D5186m >31 5		Titanium	ppm	ASTM D5185m		<1			
Lead		Silver	ppm	ASTM D5185m	>3	0			
Copper		Aluminum	ppm	ASTM D5185m	>31	5			
Copper		Lead				<1			
Time		Copper		ASTM D5185m	>26	14			
White Metal Scalar *Visual NONE NO		Tin	ppm	ASTM D5185m	>4	2			
Vellow Metal Scalar Visual NONE NONE CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil. Fuel % ASTM D5185m >20 6 6 Fuel % ASTM D5185m >20 6 Fuel % ASTM D5185m >20 6 Water % ASTM D5185m >20 6 Water % ASTM D5185m >20 0.2 Wished % ASTM D5185m >20 0.2 Wished % ASTM D7844 >3 0.3 Glycol WC Method NEG Sooft % % ASTM D7844 >3 0.3 Silt Scalar **Visual NONE NEG Silt Scalar **Visual NONE NONE NONE Silt Scalar **Visual NONE NONE Scand/Dirt Scalar **Visual NONE NONE Appearance Scalar **Visual NORML NORML Appearance Scalar **Visual NORML NORML Appearance Scalar **Visual NORML NORML Appearance Scalar **Visual NORML NORML Appearance Scalar **Visual NORML NORML		Vanadium	ppm	ASTM D5185m		0			
Silicon ppm ASTM D5185m 20 6		White Metal	scalar	*Visual	NONE	NONE			
Silicon ppm ASTM D5185m 20 6		Yellow Metal	scalar	*Visual	NONE	NONE			
Potassium ppm ASTM D5185m > 20 6									
Fuel content negligible. There is no indication of any contamination in the oil. Fuel % ASTM D3524 >2.1 0.2	CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	14			
the oil. Water		Potassium	ppm	ASTM D5185m	>20	6			
Water WC Method So.21 NEG		Fuel	%	ASTM D3524	>2.1	0.2			
Soot %		Water		WC Method	>0.21	NEG			
Nitration		Glycol		WC Method		NEG			
Sulfation Abs/.fmm *ASTM D7415 >30 21.2 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NOR		Soot %	%	*ASTM D7844	>3	0.3			
Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE		Nitration	Abs/cm	*ASTM D7624	>20	8.0			
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML		Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2			
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORM		Silt	scalar	*Visual	NONE	NONE			
Appearance		Debris	scalar	*Visual	NONE	NONE			
Codor Scalar *Visual NORML N		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 213 Manganese ppm ASTM D5185m 250 Magnesium ppm ASTM D5185m 833 Calcium ppm ASTM D5185m 833 Phosphorus ppm ASTM D5185m 1390 Zinc ppm ASTM D5185m 924 Sulfur ppm ASTM D5185m 1109 Sulfur ppm ASTM D5185m 3175 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1		Emulsified Water	scalar	*Visual	>0.21	NEG			
Boron ppm ASTM D5185m 213 Manganese ppm ASTM D5185m 250 Magnesium ppm ASTM D5185m 833 Calcium ppm ASTM D5185m 833 Phosphorus ppm ASTM D5185m 1390 Zinc ppm ASTM D5185m 924 Sulfur ppm ASTM D5185m 1109 Sulfur ppm ASTM D5185m 3175 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1	ELUID CONDITION					_			
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. Barium ppm ASTM D5185m 250 Molybdenum ppm ASTM D5185m 8 Magnesium ppm ASTM D5185m 833 Calcium ppm ASTM D5185m 1390 Phosphorus ppm ASTM D5185m 924 Zinc ppm ASTM D5185m 1109 Sulfur ppm ASTM D5185m 3175 Sulfur ppm ASTM D5185m 3175 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1	FLUID CONDITION				>31				
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Calcium ppm ASTM D5185m 1390 Phosphorus ppm ASTM D5185m 924 Zinc ppm ASTM D5185m 1109 Sulfur ppm ASTM D5185m 3175 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1									
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Zinc ppm ASTM D5185m 1109 Sulfur ppm ASTM D5185m 3175 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1									
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Base Number (BN) mg KOH/g ASTM D2896 13.6 9.1									
Visc @ 100°C cSt ASTM D445 15.4 10.2		, ,							
		Visc @ 100°C	cSt	ASTM D445	15.4	10.2			







Laboratory Sample No.

: LEC0045022 Lab Number : 06102785 Unique Number : 10901015

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 04 Mar 2024

: 04 Mar 2024 - Jonathan Hester Diagnosed

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, 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.

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