



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION



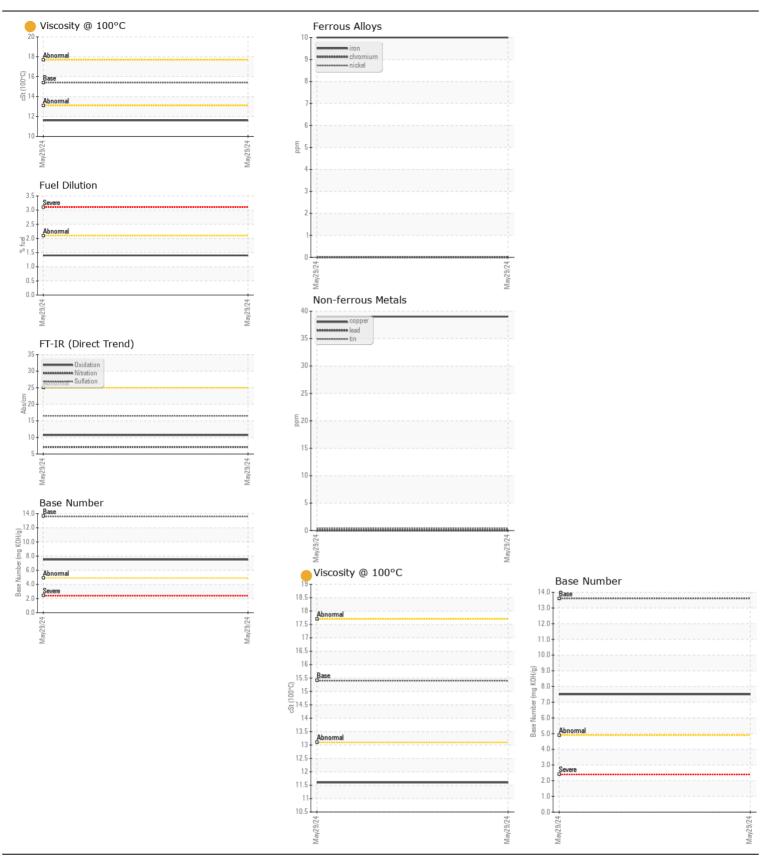
Store 3 - Norton

## JOHN DEERE 135P 1FF135PACPF000448

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

Test	JUNN DEERE ENGINE OIL PLUS 30 II 13W40 (3 GAL)								
Component wear rates are normal   Comp	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Date   Client Info   Sampling has been noted. Resample at the next service interval to monitor.   Sample Date   Client Info   Side							,	-	
Machino Ago   hrs						29 May 2024			
Filter Age		Machine Age	hrs	Client Info					
Filter Age		Oil Age	hrs	Client Info		616			
Filter Changed   Client Info   Changed   Changed   Client Info   Changed		_	hrs	Client Info		616			
NEAR		Oil Changed		Client Info		Changed			
Iron		Filter Changed		Client Info		Changed			
Chromium   ppm   ASTM D6165m   311   0		Sample Status				ATTENTION			
Chromium   ppm   ASTM D6165m   311   0									
All component wear rates are normal.    Nicke	WEAR								
Titanium   ppm   ASTM 05185m   30	All component wear rates are normal.								
Silver   ppm   ASTM D5185m   >3   0			ppm		>5				
Aluminum   ppm   ASTM D5185m   >26   0			ppm						
Lead			ppm						
Copper			ppm						
Tin			• •						
Vanadium   ppm   ASTM D5185m   NONE   NONE   White Metal   scalar   Visual   NONE   NONE   NONE   Water   Visual   NONE   NONE			ppm			39			
White Metal   Scalar   "Visual   NONE   NO			ppm		>4				
Vellow Metal   Scalar   Visual   NONE   NONE           CONTAMINATION       Fuel content negligible. There is no indication of any contamination in the oil.       Fuel   % ASTM D5185m   >20   7           Water   % ASTM D5185m   >30   16.5           Sulfation   Abs.Imm   *ASTM D7415   >30   16.5           Sulfation   Abs.Imm   *ASTM D7415   >30   16.5           Sand/Dirt   Scalar   *Visual   NONE   NONE           Sand/Dirt   Scalar   *Visual   NONE   NONE           Water   Water   Scalar   *Visual   NONE   NONE           Water   Water   Scalar   *Visual   NORML   NORML           Water   Water   Scalar   *Visual   NORML   NORML             Water   Water   Scalar   *Visual   NORML   NORML               Water   Water   Scalar   *Visual   NORML   NORML               Water   Water   Scalar   *Visual   NORML   NORML                 Water   Water   Scalar   *Visual   NORML   NORML						-			
Silicon   ppm   ASTM D5185m   J20   7			scalar						
Potassium   ppm   ASTM D5185m   >20   7		Yellow Metal	scalar	*Visual	NONE	NONE			
Potassium   ppm   ASTM D5185m   >20   7	CONTAMINATION	Silicon	nnm	ACTM DE105m	× 120	10			
Fuel content negligible. There is no indication of any contamination in the oil.	CONTAMINATION		• •						
Water   WC Method   Neg           Glycol   WC Method   Soot %   NEG   WC Method       Soot %   NEG   WC Method       Soot %   Neg   WC Method       Neg   WC Method   NEG   WC Method       Neg   WC Method   NEG   WC Method       Neg   WC Method   Neg   WC Method       WC Method   Neg   WC WC WC WC WC WC WC       WC WC Method   Neg   WC WC WC WC WC WC       WC WC WC WC WC WC WC WC WC WC WC WC WC									
Glycol			70						
Soot % %					>0.21				
Nitration   Abs/cm   *ASTM D7624   >20   7.1         Sulfation   Abs/tmm   *ASTM D7624   >30   16.5         Silt   scalar *Visual   NONE   NONE         Sand/Dirt   scalar *Visual   NONE   NONE   NONE         Appearance   scalar *Visual   NORML		-	0/		. 2				
Sulfation   Abs/.1mm   *ASTM D7415   >30   16.5									
Silt   Scalar   *Visual   NONE   NONE   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE									
Debris   Scalar   *Visual   NONE   NONE   NONE   Sand/Dirt   Scalar   *Visual   NONE   NONE									
Sand/Dirt   Scalar   *Visual   NONE   NORML   NORML									
Appearance									
Calcium   Calc									
Emulsified Water   scalar   *Visual   >0.21   NEG									
Sodium   ppm   ASTM D5185m   >31   2									
Boron   ppm   ASTM D5185m   187           Molybdenum   ppm   ASTM D5185m   2           Magnesium   ppm   ASTM D5185m   21           Magnesium   ppm   ASTM D5185m   21           Magnesium   ppm   ASTM D5185m   22           Magnesium   ppm   ASTM D5185m   82           Calcium   ppm   ASTM D5185m   2209           Phosphorus   ppm   ASTM D5185m   1065           Zinc   ppm   ASTM D5185m   1247           Sulfur   ppm   ASTM D5185m   3038           Oxidation   Abs/.1mm   *ASTM D7414   >25   10.7           Base Number (BN)   mg KOH/g   ASTM D2896   13.6   7.5									
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   2	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2			
there is suitable alkalinity remaining in the oil. Confirm oil type.    Molybdenum   ppm   ASTM D5185m   21         Manganese   ppm   ASTM D5185m   82         Calcium   ppm   ASTM D5185m   2209         Phosphorus   ppm   ASTM D5185m   1065         Zinc   ppm   ASTM D5185m   1247         Sulfur   ppm   ASTM D5185m   3038         Oxidation   Abs/.1mm   *ASTM D7414   >25   10.7         Base Number (BN)   mg KOH/g   ASTM D2896   13.6   7.5	The all described leaves the second The DN condition to the	Boron	ppm	ASTM D5185m		187			
Molybdenum         ppm         ASIM D5185m         21             Magnesium         ppm         ASTM D5185m         \$2             Magnesium         ppm         ASTM D5185m         \$209             Calcium         ppm         ASTM D5185m         \$1065             Phosphorus         ppm         ASTM D5185m         \$1247             Zinc         ppm         ASTM D5185m         \$3038             Sulfur         ppm         ASTM D5185m         \$3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         \$10.7             Base Number (BN)         mg KOH/g         ASTM D2896         \$13.6         7.5		Barium	ppm	ASTM D5185m		2			
Magnesium         ppm         ASTM D5185m         82             Calcium         ppm         ASTM D5185m         2209             Phosphorus         ppm         ASTM D5185m         1065             Zinc         ppm         ASTM D5185m         1247             Sulfur         ppm         ASTM D5185m         3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Molybdenum	ppm	ASTM D5185m		21			
Calcium         ppm         ASTM D5185m         2209             Phosphorus         ppm         ASTM D5185m         1065             Zinc         ppm         ASTM D5185m         1247             Sulfur         ppm         ASTM D5185m         3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Manganese	ppm	ASTM D5185m		<1			
Phosphorus         ppm         ASTM D5185m         1065             Zinc         ppm         ASTM D5185m         1247             Sulfur         ppm         ASTM D5185m         3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Magnesium	ppm	ASTM D5185m		82			
Zinc         ppm         ASTM D5185m         1247             Sulfur         ppm         ASTM D5185m         3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Calcium	ppm	ASTM D5185m		2209			
Sulfur         ppm         ASTM D5185m         3038             Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Phosphorus	ppm	ASTM D5185m		1065			
Oxidation         Abs/.1mm         *ASTM D7414         >25         10.7             Base Number (BN)         mg KOH/g         ASTM D2896         13.6         7.5		Zinc	ppm	ASTM D5185m		1247			
Base Number (BN) mg KOH/g   ASTM D2896   13.6   7.5		Sulfur	ppm	ASTM D5185m		3038			
						10.7			
Visc @ 100°C cSt ASTM D445 15.4 ( 11.6 )		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.5			
		Visc @ 100°C	cSt	ASTM D445	15.4	11.6			







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06196419

: LEC0050112 Unique Number : 11058542

Received **Tested** Diagnosed

: 31 May 2024 : 05 Jun 2024

: 05 Jun 2024 - Don Baldridge

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

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