WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

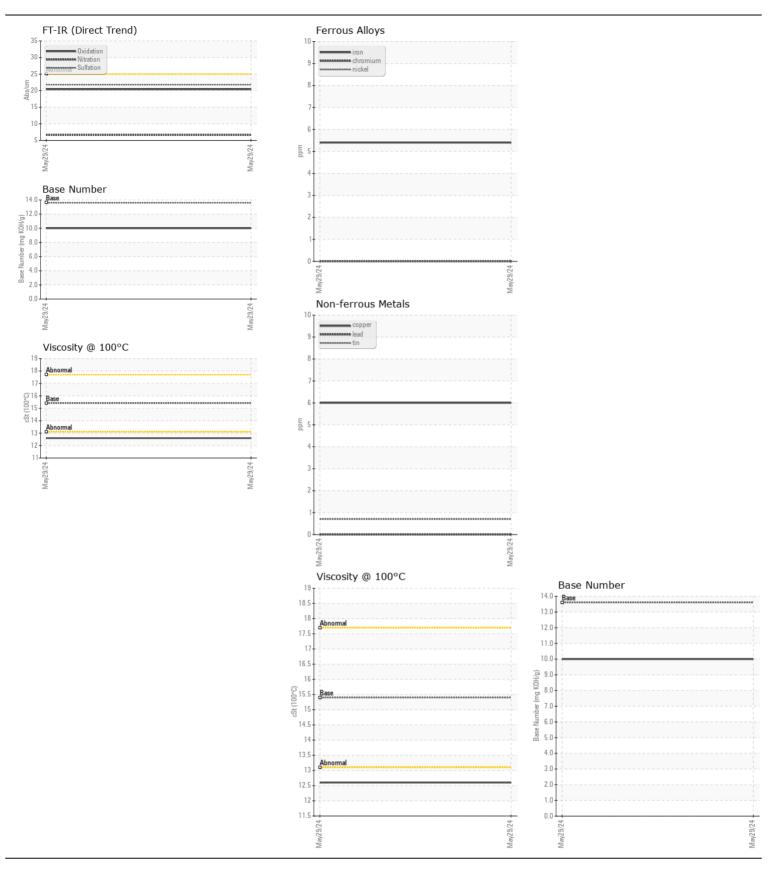
Machine Id

JOHN DEERE 135G 1FF135GXKNF503518

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (16 QTS)

Machine Age hrs Client Info 1829	JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (16 Q I S)						
Resample at the next service interval to monitor. Sample Number Client Into JR0217776 Sample Data Client Into Day 2024 Sample Status Client Into Changed Changed Client Into Chang	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.								
Machine Age hrs Cilent Info 1829	Resample at the next service interval to monitor.							
Oil Age			hrs					
Filter Age		•						
Oil Changed Client Info Changed Client Info Changed Changed Client Info Changed Changed				Client Info				
Filter Changed Client Info Changed Common Commo		_				Changed		
Iron		_						
Iron		_				_		
All component wear rates are normal. Chromium ppm ASTM 05185m 20 0		·						
Nickel ppm ASTM 05185m 94 0	WEAR	Iron	ppm	ASTM D5185m	>100	5		
Titanium ppm ASTMOSISS	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0		
Silver ppm ASTM D5185m >20		Nickel	ppm	ASTM D5185m	>4	0		
Aluminum ppm ASTM D5185m >20 4		Titanium	ppm	ASTM D5185m		0		
Lead		Silver	ppm	ASTM D5185m	>3	0		
Copper		Aluminum	ppm	ASTM D5185m	>20	4		
Tin		Lead	ppm	ASTM D5185m	>40	0		
Tina ppm ASTM D5185m 0 0		Copper		ASTM D5185m	>330	6		
White Metal Scalar "Visual NONE NO		Tin	ppm	ASTM D5185m	>15	<1		
Value Valu		Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >25 8		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM 05185m 20 2		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM 05185m 20 2								
There is no indication of any contamination in the oil. Fuel	CONTAMINATION		ppm					
Water WC Method So.2 NEG So.2 NE	There is no indication of any contamination in the oil.			ASTM D5185m	>20	2		
Glycol		Fuel	%			<1.0		
Soot %		Water			>0.2	NEG		
Nitration		Glycol		WC Method		NEG		
Sulfation Abs/.1mm *ASTM D7415 >30 21.8		Soot %	%	*ASTM D7844	>3	0.1		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NORML NOR		Nitration	Abs/cm	*ASTM D7624	>20	6.6		
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	21.8		
Sand/Dirt Scalar *Visual NONE NONE Appearance Scalar *Visual NORML		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 >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 2		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 56 Molybdenum ppm ASTM D5185m 56 Magnesium ppm ASTM D5185m 42 Magnesium ppm ASTM D5185m 42 Magnesium ppm ASTM D5185m 512 Calcium ppm ASTM D5185m 512 Phosphorus ppm ASTM D5185m 1763 Zinc ppm ASTM D5185m 986 Sulfur ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 56 Molybdenum ppm ASTM D5185m 56 Magnesium ppm ASTM D5185m 42 Magnesium ppm ASTM D5185m 42 Magnesium ppm ASTM D5185m 512 Calcium ppm ASTM D5185m 512 Phosphorus ppm ASTM D5185m 1763 Zinc ppm ASTM D5185m 986 Sulfur ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0	ELLID CONDITION	0 "		AOTA DE LOE				
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 42 Manganese ppm ASTM D5185m 512 Magnesium ppm ASTM D5185m 512 Calcium ppm ASTM D5185m 1763 Phosphorus ppm ASTM D5185m 986 Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.tmm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0	FLUID CONDITION							
Oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 42 Manganese ppm ASTM D5185m 512 Calcium ppm ASTM D5185m 1763 Phosphorus ppm ASTM D5185m 986 Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.tmm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0	The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.							
Manganese ppm ASTM D5185m <1								
Magnesium ppm ASTM D5185m 512 Calcium ppm ASTM D5185m 1763 Phosphorus ppm ASTM D5185m 986 Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Calcium ppm ASTM D5185m 1763 Phosphorus ppm ASTM D5185m 986 Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Phosphorus ppm ASTM D5185m 986 Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Zinc ppm ASTM D5185m 1137 Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Sulfur ppm ASTM D5185m 3358 Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Oxidation Abs/.1mm *ASTM D7414 >25 20.4 Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0								
Base Number (BN) mg KOH/g ASTM D2896 13.6 10.0					0.5			
Visc @ 100°C cSt ASTM D445 15.4 12.6								
		Visc @ 100°C	cSt	ASTM D445	15.4	12.6		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06196396

Unique Number : 11058519

: JR0217976 Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: FuelDilution, TBN)

: 31 May 2024

: 03 Jun 2024 : 03 Jun 2024 - Don Baldridge

US 20111 Contact: DON VEST dvest@jamesriverequipment.com

T: (703)631-8500 F: (703)631-4715

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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)