WEAR CONTAMINATION **FLUID CONDITION**

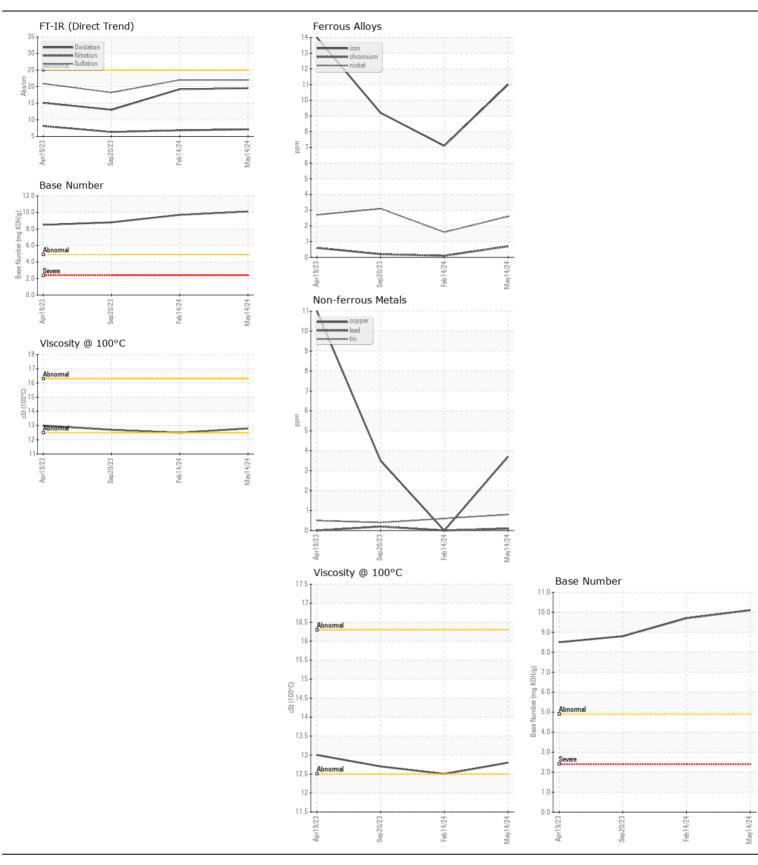
NORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 134

Component
Diesel Engine

Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium	hrs hrs hrs ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Method Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>11 >5 >3	Current JR0189814 14 May 2024 2505 500 500 Changed Changed NORMAL 11 <1 3 <1 0	History1 JR0189767 14 Feb 2024 2000 500 500 Changed Changed NORMAL 7 <1 2 0	History2 JR0135319 20 Sep 2023 1492 500 Changed Changed NORMAL 9 <1 3 0
Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info ASTM D5185m	>11 >5 >3	14 May 2024 2505 500 500 Changed Changed NORMAL 11 <1 3	14 Feb 2024 2000 500 500 Changed Changed NORMAL 7 <1	20 Sep 2023 1492 500 500 Changed Changed NORMAL 9 <1
Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m	>11 >5 >3	2505 500 500 Changed Changed NORMAL 11 <1 3	2000 500 500 Changed Changed NORMAL 7 <1	1492 500 500 Changed Changed NORMAL 9 <1 3
Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info Client Info ASTM D5185m	>11 >5 >3	500 500 Changed Changed NORMAL 11 <1 3 <1	500 500 Changed Changed NORMAL 7 <1 2	500 500 Changed Changed NORMAL 9 <1 3
Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info Client Info Client Info ASTM D5185m	>11 >5 >3	500 Changed Changed NORMAL 11 <1 3 <1	500 Changed Changed NORMAL 7 <1	500 Changed Changed NORMAL 9 <1 3
Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm ppm	Client Info Client Info ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>11 >5 >3	Changed Changed NORMAL 11 <1 3	Changed Changed NORMAL 7 <1	Changed Changed NORMAL 9 <1 3
Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>11 >5 >3	Changed NORMAL 11 <1 3 <1	Changed NORMAL 7 <1 2	Changed NORMAL 9 <1 3
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>11 >5 >3	11 <1 3 <1	NORMAL 7 <1 2	9 <1 3
Chromium Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>11 >5 >3	<1 3 <1	<1 2	<1 3
Nickel Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >3	<1 3 <1	2	3
Titanium Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>5 >3	<1	2	3
Silver Aluminum Lead Copper Tin	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3		0	
Aluminum Lead Copper Tin	ppm ppm ppm	ASTM D5185m ASTM D5185m		0		U
Lead Copper Tin	ppm ppm	ASTM D5185m	>31	U	0	0
Copper Tin	ppm ppm			1	<1	2
Tin	ppm	AOTHER	>26	<1	0	<1
Tin		ASTM D5185m	>26	4	0	4
Vanadium	ppiii	ASTM D5185m	>4	<1	<1	<1
	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	4	5	4
Potassium	ppm	ASTM D5185m	>20	2	<1	2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.8	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	22.0	18.2
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
Odor	scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118	1	3	0
	ppm					11
	ppm			0		0
•	ppm				39	63
	ppm					<1
Magnesium	ppm					827
	ppm	ASTM D5185m		1705	1509	1293
•	ppm					1079
	ppm					1242
	ppm					4285
			>25			13.0
						8.8 12.7
_	Vanadium White Metal Yellow Metal Silicon Potassium Fuel Water Glycol Soot % Nitration Sulfation Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Oxidation	Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Fuel Water Glycol Soot % % Nitration Abs/.mm Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water Sodium ppm Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm Oxidation Abs/.1mm Base Number (BN) mg KOH/g	Vanadium ppm ASTM D5185m White Metal scalar *Visual Yellow Metal scalar *Visual Silicon ppm ASTM D5185m Potassium ppm ASTM D5185m Fuel WC Method Water WC Method Glycol WC Method Soot % *ASTM D7844 Nitration Abs/cm *ASTM D7844 Nitration Abs/cm *ASTM D7845 Silt scalar *Visual Debris scalar *Visual Appearance scalar *Visual Appearance scalar *Visual Emulsified Water scalar *Visual Sodium ppm ASTM D5185m Boron ppm ASTM D5185m Barium ppm ASTM D5185m Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m	VanadiumppmASTM D5185mWhite Metalscalar*VisualNONEYellow Metalscalar*VisualNONESiliconppmASTM D5185m>22PotassiumppmASTM D5185m>20FuelWC Method>2.1WaterWC Method>0.21GlycolWC Method>0.21Soot %%*ASTM D7844>3NitrationAbs/cm*ASTM D7624>20SulfationAbs/.1mm*ASTM D7415>30Siltscalar*VisualNONESand/Dirtscalar*VisualNONEAppearancescalar*VisualNORMLOdorscalar*VisualNORMLEmulsified Waterscalar*Visual>0.21SodiumppmASTM D5185m>118BoronppmASTM D5185m>118BariumppmASTM D5185m>118ManganeseppmASTM D5185mMagnesiumppmASTM D5185mCalciumppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mOxidationAbs/.1mm*ASTM D5185mDase Number (BN)mg KOH/gASTM D5185m	Vanadium ppm ASTM D5185m 0 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >22 4 Potassium ppm ASTM D5185m >20 2 Fuel WC Method >2.1 <1.0	Vanadium ppm ASTM D5185m 0 0 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >22 4 5 Potassium ppm ASTM D5185m >20 2 <1







Laboratory Sample No.

Lab Number : 06197476

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0189814

Received **Tested** Unique Number : 11059599

: 04 Jun 2024 Diagnosed

: 04 Jun 2024 - Wes Davis

: 03 Jun 2024

3175 BRIGHT LEAF RD LAWRENCEVILLE, VA US 23868

Contact: REX WATSON

THE SCOTTS COMPANY

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)

T: (434)848-2727

F: (434)848-2250