WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

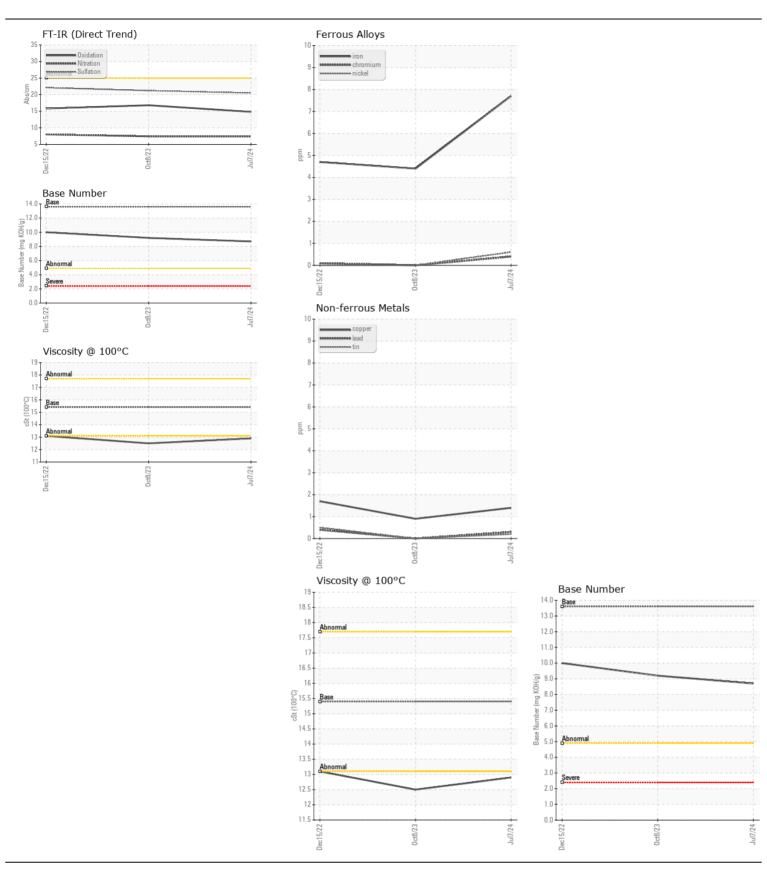
Machine Id

JOHN DEERE 135G 1FF135GXVJF500896

Diesel Engine

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

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (MAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0222216	JR0185802	JR0152860
	Sample Date		Client Info		07 Jul 2024	08 Oct 2023	15 Dec 2022
	Machine Age	hrs	Client Info		5604	5235	4537
	Oil Age	hrs	Client Info		369	698	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	8	4	5
	Chromium	ppm	ASTM D5185m	>11	<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	3	3
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		1	<1	2
	Tin	ppm	ASTM D5185m		- <1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTA DE10E	00			
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	6	6
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		2	0	0
		%	ASTM D3524		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	0	NEG	NEG	NEG
					0.1 7.4	0.1	0.1
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415			7.4 21.2	8.0 22.1
			*Visual		20.5 NONE		
	Silt Debris	scalar		NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE NONE	NONE
		scalar		NONE	NORML		NORMI
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORMI
	Emulsified Water				NEG	NEG	NEG
	Emuisined water	Sualai	*Visual	>0.21	NEG	INEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		281	194	246
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		237	177	226
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		779	727	793
	Calcium	ppm	ASTM D5185m		1403	1603	1486
	Phosphorus	ppm	ASTM D5185m		905	892	826
	Zinc	ppm	ASTM D5185m		1063	1086	1017
	Sulfur	ppm	ASTM D5185m		3103	3000	3018
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.8	15.8
	Base Number (BN)				8.7	9.2	10.0
	Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.5	13.1







Certificate L2367

Laboratory Sample No.

Lab Number : 06232048 Unique Number : 11115541

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0222216 Received : 10 Jul 2024 **Tested** : 11 Jul 2024

Diagnosed

: 11 Jul 2024 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

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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GARNER, NC

US 27529