WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

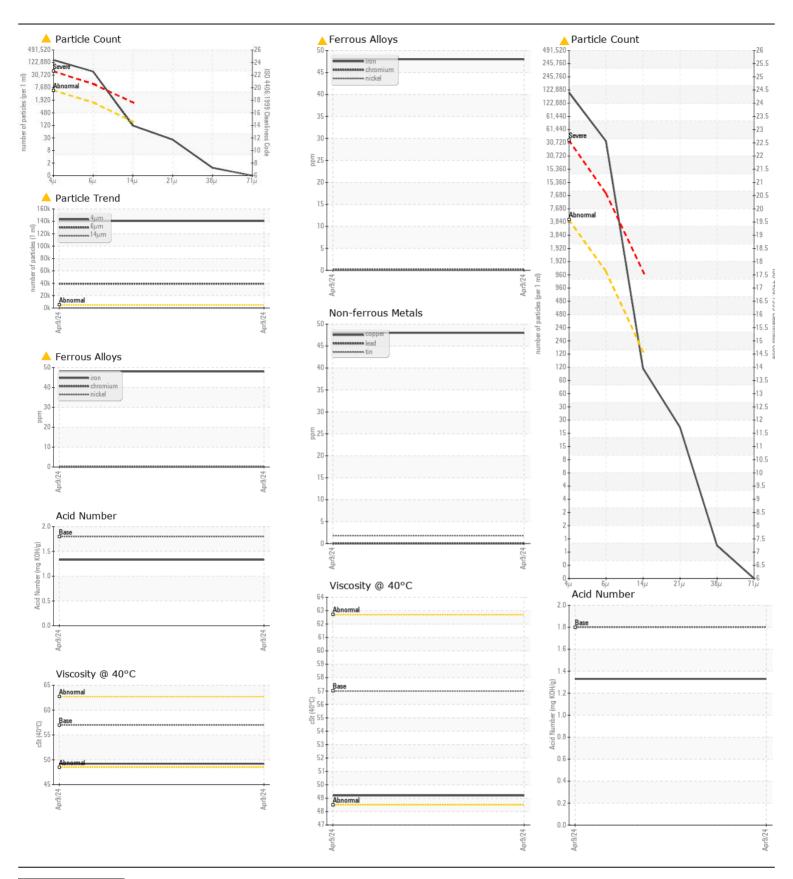
Machine Id

JOHN DEERE 5310 LV5310S330095

Hydraulic System

JOHN DEFRE HY-GARD HYD/TRANS (--- QTS)

JOHN DEERE HY-GARD HYD/TRANS (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0209779		
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		09 Apr 2024		
	Machine Age	hrs	Client Info		6126		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		34		
	Iron	ppm	ASTM D5185m	>20	48		
The iron level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m	>10	2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		48		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	~2n	8		
CONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		▲ 140424		
	Particles >6µm		ASTM D7647		▲ 39223		
	Particles >14μm		ASTM D7647		103		
	Particles >21µm		ASTM D7647		22		
	Particles >38µm		ASTM D7647		 1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u> 24/22/14</u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
ELUID CONDITION	Codium		ACTM DE10Em		4		
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	6	4		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1 0		
		ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m ASTM D5185m	115	1 86		
	Magnesium Calcium	ppm					
		ppm	ASTM D5185m	3570	3198		
	Phosphorus	ppm	ASTM D5185m		1047		
	Zinc	ppm	ASTM D5185m	1040	1206		
	Sulfur	ppm	ASTM D5185m	1.0	3899		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.33		
	Visc @ 40°C	cSt	ASTM D445	57.0	49.2		





Certificate L2367

Laboratory Sample No.

Lab Number : 06152966

: JR0209779 Unique Number : 10983044

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

Tested Diagnosed Test Package : MOBCE (Additional Tests: PQ)

: 18 Apr 2024 : 19 Apr 2024

: 22 Apr 2024 - Don Baldridge

JRE - WILKESBORO 288 WESTGATE DRIVE WILKESBORO, NC US 28697

Contact: BUTCH JANES bjanes@jamesriverequipment.com T: (336)973-8201

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)

F: (336)973-8496