WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

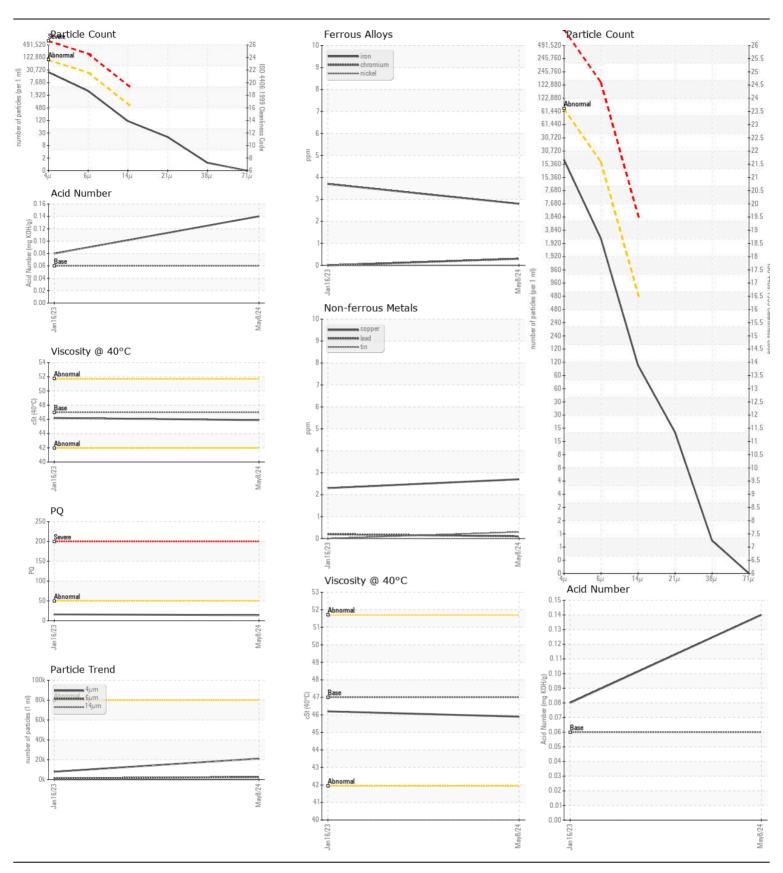
Machine Id

JOHN DEERE 85G 1FF085GXHLJ021862

Hydraulic System

HITACHI HYDRAUI IC SUPER EX 46HN (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0215043	JR0154938	
Resample at the next service interval to monitor.	Sample Date		Client Info		08 May 2024	16 Jan 2023	
	Machine Age	hrs	Client Info		1205	464	
	Oil Age	hrs	Client Info		1205	464	
	Filter Age	hrs	Client Info		0	464	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	14	16	
	Iron	ppm	ASTM D5185m		3	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	70	<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	\9	2	0	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		3	2	
	Tin	ppm	ASTM D5185m		- <1	0	
	Vanadium	ppm	ASTM D5185m	70	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	 .11	1	<1	
	Potassium	ppm	ASTM D5185m		1	0	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.		ppm			NEG	NEG	
	Water		WC Method			7982	
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		21177	1310	
	Particles >14µm		ASTM D7647		2675 98	46	
						7	
	Particles >21µm		ASTM D7647		17 1	1	
	Particles >38µm		ASTM D7647		0		
	Particles >71µm Oil Cleanliness		ASTM D7647		-	0	
			ISO 4406 (c) *Visual		22/19/14	20/18/13	
	Silt Debris	scalar		NONE	NONE	NONE NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	
	Appearance	scalar		NORML	NORML	NORML	
	Odor	scalar scalar	*Visual *Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.075	NEG	NEG	
	Liliuisilleu vvalei	Scalai	Visuai	>0.075	INEG	NLG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	<1	
	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		3	7	
	Calcium	ppm	ASTM D5185m		3	<1	
	Phosphorus	ppm	ASTM D5185m	827	365	340	
	Zinc	ppm	ASTM D5185m		48	50	
	Sulfur	ppm	ASTM D5185m		1268	1500	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.08	
	Visc @ 40°C	cSt	ASTM D445		45.9	46.2	





Certificate L2367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0215043 : 06175375

Received **Tested** Diagnosed

: 14 May 2024 - Don Baldridge Unique Number : 11021428 Test Package : CONST (Additional Tests: PQ)

: 10 May 2024

: 13 May 2024

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.

JRE - CHARLOTTE 9550 STATESVILLE ROAD

CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198

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