WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

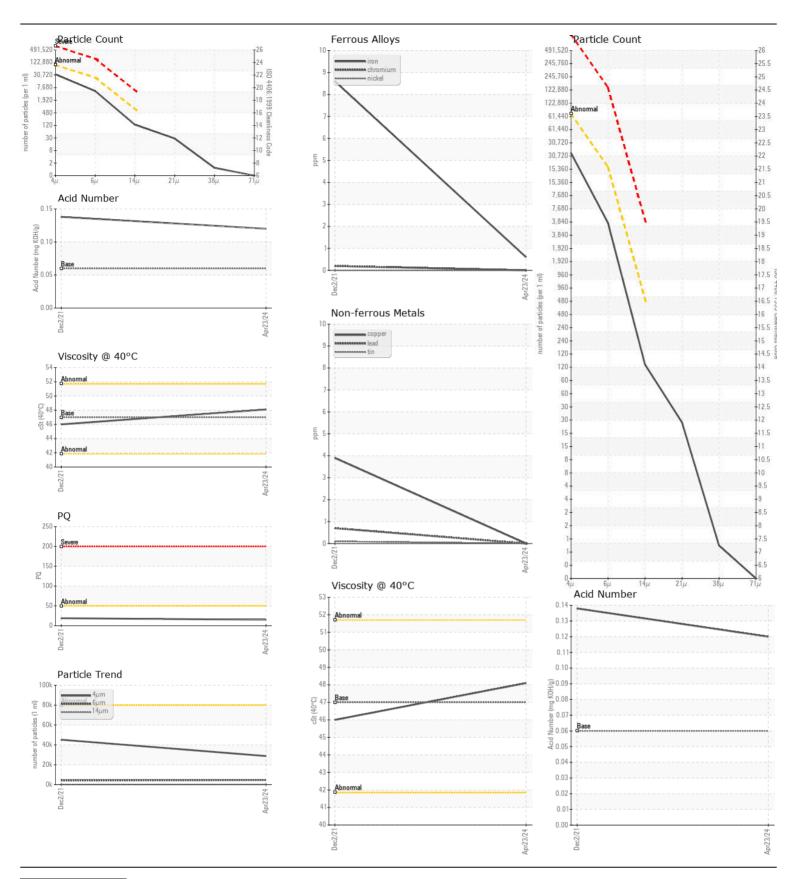
Machine Id

JOHN DEERE 50G 1FF050GXKKH291250

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211956	JR0107531	
	Sample Date		Client Info		23 Apr 2024	02 Dec 2021	
	Machine Age	hrs	Client Info		995	675	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	15	19	
	Iron	ppm	ASTM D5185m	>32	<1	9	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	1	
	Aluminum	ppm	ASTM D5185m	>9	0	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		0	4	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon		ACTM DE10Em	. 44	.4	.4	
ONTAMINATION		ppm	ASTM D5185m		<1	<1	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Potassium	ppm	ASTM D5185m		0	<1 NEO	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		28779	45198	
	Particles >6µm		ASTM D7647		4629	4257	
	Particles >14µm		ASTM D7647		114 25	26	
	Particles >21µm		ASTM D7647		25 1	3	
	Particles >38µm		ASTM D7647			0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		22/19/14	23/19/12	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML NEG	
	Emulsified Water	Scalar	*Visual	>0.075	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	0	
he ANTIquel is proportable for this fluid. The condition of the 200	Boron	ppm	ASTM D5185m		0	<1	
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	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		0	9	
	Calcium	ppm	ASTM D5185m		0	14	
	Phosphorus	ppm	ASTM D5185m	827	492	398	
	Zinc	ppm	ASTM D5185m	0	17	54	
	Sulfur	ppm	ASTM D5185m	13	188	925	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.12	0.138	
	Visc @ 40°C	cSt	ASTM D445	47	48.1	46.0	





Laboratory

Sample No. Lab Number : 06161368

: JR0211956

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Apr 2024 **Tested** Unique Number : 10996791

Diagnosed

: 29 Apr 2024 : 30 Apr 2024 - Don Baldridge

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

Test Package : CONST (Additional Tests: PQ) Certificate L2367 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. F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)