WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

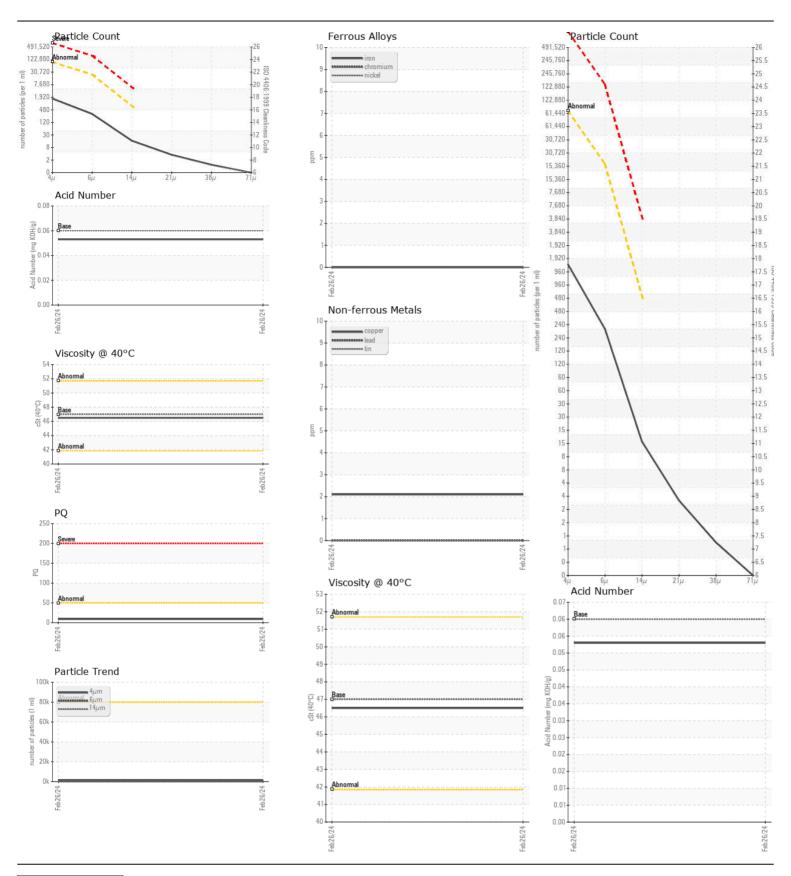
JOHN DEERE 190GW 1FF190GWKNF052180

Hydraulic System

HITACHI HYDRAIII IC SIIPER EX 46HN (-

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0199894		
Resample at the next service interval to monitor.	Sample Date		Client Info		26 Feb 2024		
	Machine Age	hrs	Client Info		440		
	Oil Age	hrs	Client Info		440		
	Filter Age	hrs	Client Info		440		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184	>50	9		
	Iron	ppm	ASTM D5185m	>32	0		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	, 0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>9	0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	<11	<1		
	Potassium	ppm	ASTM D5185m		<1		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		1443		
	Particles >6µm		ASTM D7647		266		
	Particles >14μm		ASTM D7647		14		
	Particles >21µm		ASTM D7647		3		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		18/15/11		
	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		*Visual	>0.075	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	1		
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		10		
	Phosphorus	ppm	ASTM D5185m		519		
	Zinc	ppm	ASTM D5185m		41		
	Sulfur	ppm	ASTM D5185m		166		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.053		
	Visc @ 40°C	cSt	ASTM D445	47	46.5		

Contact/Location: DAVID ZIEG - JAMASH





Certificate L2367

Laboratory Sample No. Lab Number

: JR0199894 : 06102864 Unique Number : 10901094

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested**

: 29 Feb 2024 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 29 Feb 2024 - Don Baldridge

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

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

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) Contact/Location: DAVID ZIEG - JAMASH