

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ATTENTION

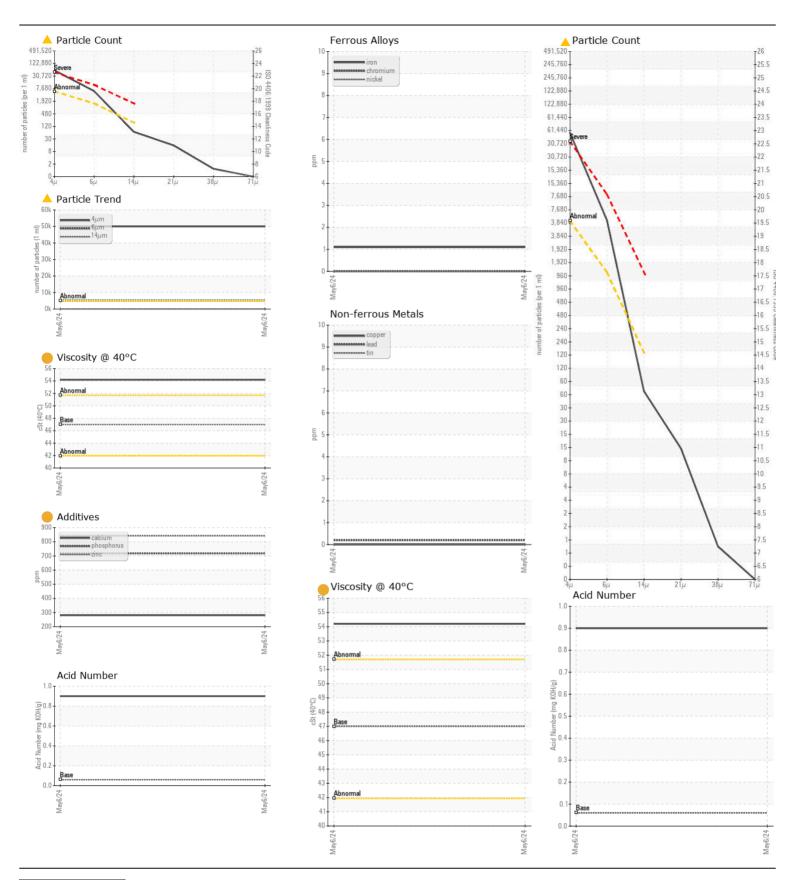
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JOHN DEERE 941000

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMINE TO A TOTAL	Sample Number		Client Info		WE0007221		
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Date		Client Info		06 May 2024		
	Machine Age	hrs	Client Info		4222		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VEAD	PQ		ASTM D8184		16		
WEAR	Iron	ppm	ASTM D5185m	>20	1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		0		
	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	~20	1		
	Potassium	ppm	ASTM D5185m		3		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		▲ 50004		
	Particles >6µm		ASTM D7647		<u>▲</u> 5076		
	Particles >14µm		ASTM D7647		58		
	Particles >21µm		ASTM D7647		13		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		23/20/13		
	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		
LUID CONDITION	Sodium	nnm	ASTM D5185m		1		
LOID CONDITION	Boron	ppm	ASTM D5185m		0		
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		8		
	Calcium	ppm	ASTM D5185m		<u>281</u>		
	Phosphorus	ppm	ASTM D5185m	827	718		
	Zinc	ppm	ASTM D5185m		842		
	Sulfur	ppm	ASTM D5185m		1989		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.90		
	ACIO NUMBER (ANI)	IIIU IX JULIU					





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0007221 Lab Number : 06176054

Unique Number : 11022107 Test Package : CONST (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 10 May 2024 : 14 May 2024 **Tested** Diagnosed

: 14 May 2024 - Don Baldridge

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE 4308 WATER TRAIL GRAYSVILLE, AL US 35073 Contact: BEN BYRKET

bbyrket@warriortractor.com T: (205)675-9045

* - 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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