WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

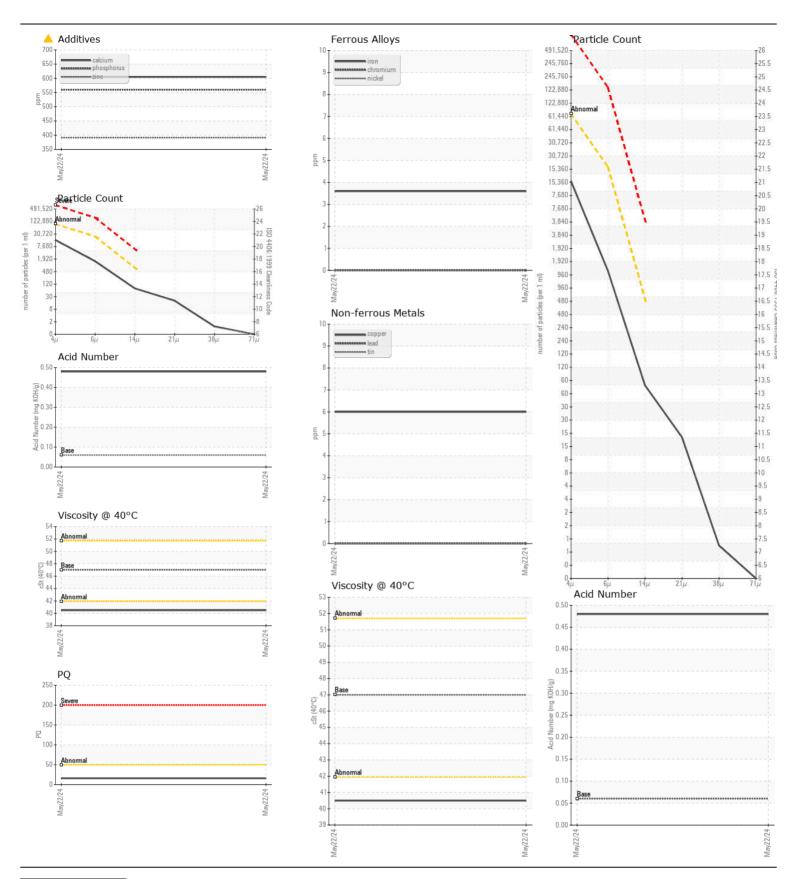
Machine Id

JOHN DEERE 50G 1FF050GXLMH294186

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0207757		
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.	Sample Date		Client Info		22 May 2024		
	Machine Age	hrs	Client Info		993		
	Oil Age	hrs	Client Info		993		
	Filter Age	hrs	Client Info		993		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
MEAD	DO		ACTM DO104	. 50	16		
VEAR	PQ	0.00	ASTM D8184		16 4		
All component wear rates are normal.	Iron Chromium	ppm	ASTM D5185m ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5165III	>0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	. 0	<1		
	Lead	ppm ppm	ASTM D5185m		0		
	Copper		ASTM D5185m		6		
	Tin	ppm ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	70	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	2		
	Potassium	ppm	ASTM D5185m	>20	<1		
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.075	NEG		
	Particles >4µm		ASTM D7647	>80000	13817		
	Particles >6µm		ASTM D7647	>20000	1313		
	Particles >14μm		ASTM D7647	>640	66		
	Particles >21μm		ASTM D7647	>160	17		
	Particles >38μm		ASTM D7647	>40	1		
	Particles >71μm		ASTM D7647	>10	0		
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/18/13		
	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	>0.075	NEG		
LUD CONDITION	Sodium	nnm	ACTM DE10Em	. 01	.4		
LUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m	> <u></u>	<1 4		
Zinc level above manufacturer's recommendations.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		0 3		
	Manganese	ppm	ASTM D5165III		ა <1		
	Magnesium	ppm	ASTM D5185m		17		
	Calcium	ppm	ASTM D5185m		605		
	Phosphorus	ppm	ASTM D5185m	827	560		
	Zinc	ppm ppm	ASTM D5165III		△ 391		
	Sulfur	ppm	ASTM D5185m		1519		
	Acid Number (AN)	mg KOH/g	ASTM D3163111 ASTM D8045		0.48		
	Visc @ 40°C	cSt			40.5		
	VISC @ 40 C	601	ASTM D445	47	40.5		





Report Id: VANASH [WUSCAR] 06192103 (Generated: 05/30/2024 17:06:46) Rev: 1

Laboratory Sample No. Lab Number

: JR0207757 : 06192103 Unique Number : 11048855

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

Received : 28 May 2024 **Tested**

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

Diagnosed

: 30 May 2024 : 30 May 2024 - Jonathan Hester

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806

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.

Contact: Randy Warren randy.warren@jamesriverequipment.com T: (528)667-0176

Contact/Location: Randy Warren - VANASH

F: (828)667-4865