WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

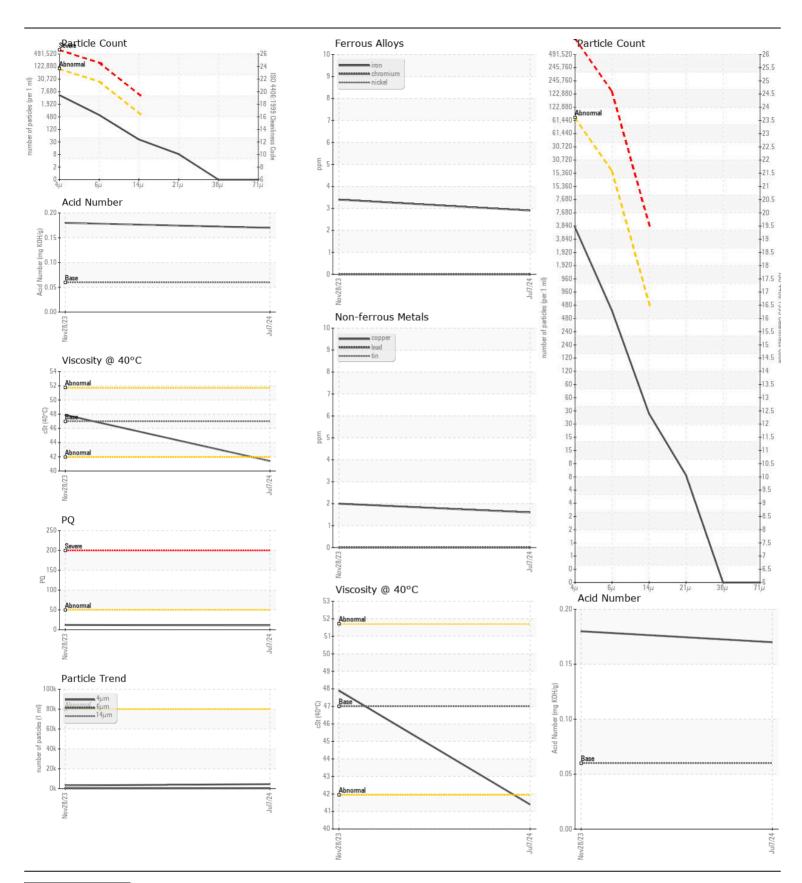
Machine Id

JOHN DEERE 160G 1FF160GXKNF058603

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0218964	JR0193038	
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Jul 2024	28 Nov 2023	
	Machine Age	hrs	Client Info		965	481	
	Oil Age	hrs	Client Info		965	0	
	Filter Age	hrs	Client Info		965	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	11	12	
	Iron	ppm	ASTM D5185m	>32	3	3	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	, 0	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>9	0	1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	1	
	Potassium	ppm	ASTM D5185m		0	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	NEG	
	Particles >4µm		ASTM D7647		4574	3213	
	Particles >6µm		ASTM D7647		516	386	
	Particles >14μm		ASTM D7647		35	28	
	Particles >21μm		ASTM D7647		7	7	
	Particles >38µm		ASTM D7647		0	1	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		19/16/12	19/16/12	
	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	
	Emulsified Water		*Visual	>0.075	NEG	NEG	
LUD AANDITIAN							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		<1	<1	
	Calcium	ppm	ASTM D5185m		16	2	
	Phosphorus	ppm	ASTM D5185m		441	461	
	Zinc	ppm	ASTM D5185m		33	21	
	Sulfur	ppm	ASTM D5185m		99	44	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.17	0.18	
	Visc @ 40°C	cSt	ASTM D445	47	41.4	47.9	





Report Id: VANASH [WUSCAR] 06230064 (Generated: 07/09/2024 23:50:09) Rev: 1

Laboratory Sample No. Lab Number

: JR0218964 : 06230064 Unique Number : 11113557

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

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

: 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Don Baldridge

: 08 Jul 2024

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806 Contact: Randy Warren

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.

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