

History1

History2

[05W46080]

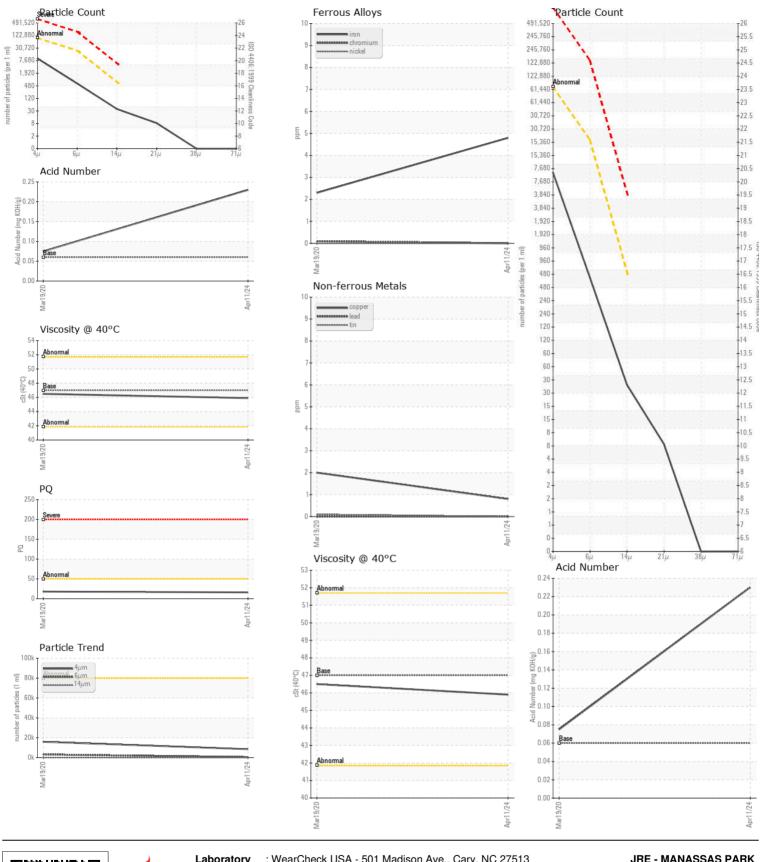
JOHN DEERE 160G 1FF160GXPKF057672

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (30 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current
	Sample Number		Client Info		JR0211160
Resample at the next service interval to monitor.	Sample Date		Client Info		11 Apr 2024
	Machine Age	hrs	Client Info		4338
	Oil Age	hrs	Client Info		4338
	Filter Age	hrs	Client Info		4338
	Oil Changed		Client Info		Not Change
	Filter Changed		Client Info		Changed
	Sample Status				NORMAL
WEAR	PQ		ASTM D8184	>50	16
	Iron	ppm	ASTM D5185m	>32	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	0
	Nickel	ppm	ASTM D5185m	>5	0
	Titanium	ppm	ASTM D5185m		0
	Silver	ppm	ASTM D5185m		0
	Aluminum	ppm	ASTM D5185m		0
	Lead	ppm	ASTM D5185m		0
	Copper Tin	ppm	ASTM D5185m		<1
	Vanadium	ppm	ASTM D5185m	>5	0
	White Metal	ppm scalar	ASTM D5185m *Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
			visuai	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1
The amount and size of particulates present in the system are	Potassium	ppm	ASTM D5185m		0
acceptable. There is no indication of any contamination in the oil.	Water		WC Method		NEG
	Particles >4µm		ASTM D7647		8513
	Particles >6µm		ASTM D7647 ASTM D7647		544
	Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647		33 7
	Particles >38µm		ASTM D7647 ASTM D7647		0
	Particles >71µm		ASTM D7647		0
	Oil Cleanliness		ISO 4406 (c)		20/16/12
	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
	Codium			. 01	•
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	2
The AN level is acceptable for this fluid. The condition of the oil is	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0
suitable for further service.	Molybdenum	ppm	ASTM D5185m ASTM D5185m		0
	Manganese	ppm ppm	ASTM D5185m		0
	Magnesium	ppm	ASTM D5185m		0
	Calcium	ppm	ASTM D5185m		1
	Guidian	PPIII			

1031	00101	Mothou	LITTIU/NOT	Guilent	Thotory	Thotoryz
Sample Number		Client Info		JR0211160	JR0037881	
Sample Date		Client Info		11 Apr 2024	19 Mar 2020	
Machine Age	hrs	Client Info		4338	487	
Oil Age	hrs	Client Info		4338	487	
Filter Age	hrs	Client Info		4338	487	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
PQ		ASTM D8184	>50	16	18	
Iron	ppm	ASTM D5185m	>32	5	2	
Chromium	ppm	ASTM D5185m	>9	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>9	0	0	
Lead	ppm	ASTM D5185m	>28	0	0	
Copper	ppm	ASTM D5185m	>50	<1	2	
Tin	ppm	ASTM D5185m	>5	0	<1	
Vanadium	ppm	ASTM D5185m	20	0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Scalai	visual	NUNE	NUNE		
Silicon	ppm	ASTM D5185m	>11	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water	ppiii	WC Method	>0.075	NEG	NEG	
Particles >4µm		ASTM D7647	>80000	8513	15958	
Particles >6µm		ASTM D7647	>20000	544	3231	
Particles >14µm		ASTM D7647	>640	33	100	
Particles >21µm		ASTM D7647	>160	7	21	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/16/12	21/19/14	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual			NONE	
	scalar		NONE	NONE		
Sand/Dirt		*Visual *Visual	NONE	NONE NORML	NONE	
Appearance Odor	scalar		NORML	-	NORML	
	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	
Sodium	ppm	ASTM D5185m	>21	2	0	
Boron	ppm	ASTM D5185m		0	<1	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		0	<1	
		ASTM D5185m		0	0	
Manganese	ppm					
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium Phosphorus	ppm	ASTM D5185m	007	1	5	
PRIOCODOCIUC	ppm	ASTM D5185m	827	374	545	
		ASTM D5185m	0	4	30	
Zinc	ppm		10		100	
Zinc Sulfur	ppm	ASTM D5185m	13	76	103	
Zinc			13 0.06 47	76 0.23 45.9	103 0.075 46.5	



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. 9107 OWENS DRIVE : JR0211160 Received : 15 Apr 2024 Lab Number MANASSAS PARK, VA :06149490 Tested : 16 Apr 2024 : 17 Apr 2024 - Don Baldridge US 20111 Unique Number : 10979568 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2