

[44633] Machine Id JOHN DEERE 350G 1FF350GXTHF811706

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

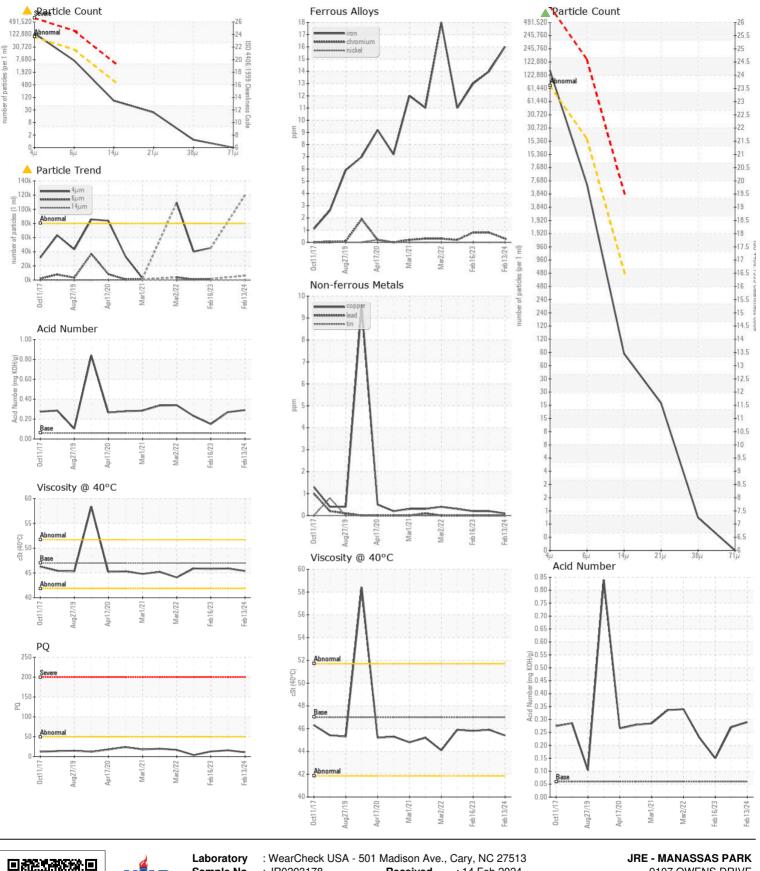
CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203178	JR0183867	JR0160205
Sample Date		Client Info		13 Feb 2024	15 Aug 2023	16 Feb 2023
Machine Age	hrs	Client Info		6937	6446	5949
Oil Age	hrs	Client Info		5521	5527	5515
Filter Age	hrs	Client Info		0	5527	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
PQ		ASTM D8184	>50	11	16	13
Iron	ppm	ASTM D5185m	>32	16	14	13
Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	5	2
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m	110.11	0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	nnm	ASTM D5185m	>11	3	5	3
Potassium	ppm	ASTM D5185m		3 <1	2	1
Water	ppm	WC Method	>2.0	NEG	NEG	NEG
Particles >4µm		ASTM D7647		▲ 119574		45291
Particles >6µm		ASTM D7647 ASTM D7647	>200000	6078		1644
Particles >14µm		ASTM D7647		73		16
Particles >21µm		ASTM D7647	>160	20		3
Particles >38µm		ASTM D7647		1		0
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)		4 24/20/13		23/18/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	A MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	0	1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		2	2	<1
Calcium	ppm	ASTM D5185m	0.05	4	11	7
Phosphorus	ppm	ASTM D5185m		429	517	496
Zinc	ppm	ASTM D5185m	0	17	12	12
Sulfur	ppm	ASTM D5185m	13	29	40	123
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.29	0.27	0.15
Visc @ 40°C	cSt	ASTM D445	47	45.4	45.9	45.8



: JR0203178 9107 OWENS DRIVE Sample No. Received : 14 Feb 2024 Lab Number : 06089510 Tested MANASSAS PARK, VA : 15 Feb 2024 : 16 Feb 2024 - Don Baldridge Unique Number : 10876955 US 20111 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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT