

Machine Id JOHN DEERE 85G 1FF085GXJMJ022275 (S/N 1FF085GXMJM022275) Component Hydraulic System

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

RECOMMENDATION	
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Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.



All component wear rates are normal.

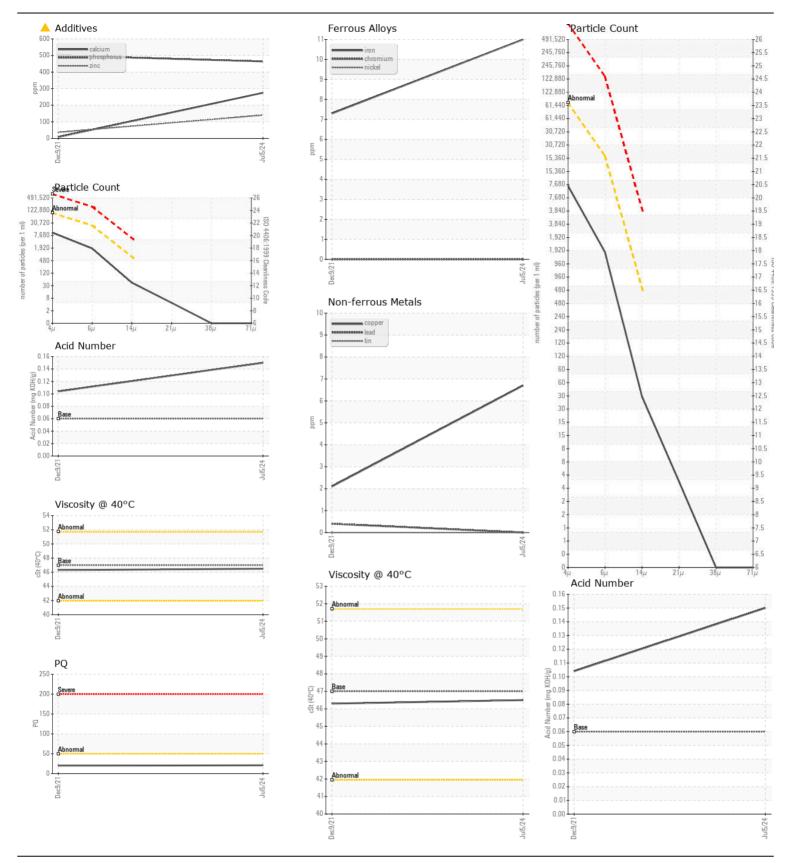
CONTAMINATION

The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211865	JR0107424	
Sample Date		Client Info		05 Jul 2024	09 Dec 2021	
Machine Age	hrs	Client Info		1178	486	
Oil Age	hrs	Client Info		1000	0	
Filter Age	hrs	Client Info		1000	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Not Change	
Sample Status		0.0.0.1		ABNORMAL	NORMAL	
PQ		ASTM D8184	>50	21	20	
Iron	ppm	ASTM D5185m	>32	11	7	
Chromium	ppm	ASTM D5185m	>9	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>9	<1	0	
Lead	ppm	ASTM D5185m	>28	0	<1	
Copper	ppm	ASTM D5185m	>50	7	2	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>11	2	1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water		WC Method	>0.075	NEG	NEG	
Particles >4µm		ASTM D7647	>80000	9183	4394	
Particles >6µm		ASTM D7647	>20000	1611	1006	
Particles >14µm		ASTM D7647	>640	37	77	
Particles >21µm		ASTM D7647	>160	4	20	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/18/12	19/17/13	
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	scalar	*Visual	>0.075	NEG	NEG	
Sodium	nom	ASTM D5185m	_	0	0	
Sodium	ppm		>21	2	2	
Boron Barium	ppm	ASTM D5185m		5	<1	
	ppm	ASTM D5185m ASTM D5185m		<1	0	
Molybdenum	ppm			0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		1	2	
Calcium	ppm	ASTM D5185m	007	275	8	
Phosphorus	ppm	ASTM D5185m		464	500	
Zinc	ppm	ASTM D5185m	0	▲ 140 c70	36	
Sulfur	ppm	ASTM D5185m	13	670	426	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.15	0.104	
Visc @ 40°C	cSt	ASTM D445	47	46.5	46.3	



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Ξt Sample No. : JR0211865 Received 11047 LEADBETTER RD : 08 Jul 2024 Lab Number : 06230055 ASHLAND, VA Tested : 09 Jul 2024 : 09 Jul 2024 - Don Baldridge US 23005 Unique Number : 11113548 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2