

Machine Id JOHN DEERE 35G 1FF035GXLMK295067 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (---- GAL)

HITACHI HYDRAULIC SUPER EX 46HN (GA	L)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0206449	JR0138497	
	Sample Date		Client Info		27 Feb 2024	11 Jan 2023	
	Machine Age	hrs	Client Info		419	236	
	Oil Age	hrs	Client Info		419	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	15	6	
	Iron	ppm	ASTM D5185m	>32	5	4	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m	>5	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>9	<1	0	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		2	4	
	Tin	ppm	ASTM D5185m		<1	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	2	<1	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Potassium	ppm	ASTM D5185m	>20	<1	0	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647	>80000	8252	12760	
	Particles >6µm		ASTM D7647	>20000	1347	2004	
	Particles >14µm		ASTM D7647	>640	114	78	
	Particles >21µm		ASTM D7647	>160	30	15	
	Particles >38µm		ASTM D7647	>40	2	1	
	Particles >71µm		ASTM D7647	>10	0	0	
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/18/14	21/18/13	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	<1	
	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		4	6	
	Calcium	ppm	ASTM D5185m		0	7	
	Phosphorus	ppm	ASTM D5185m	827	393	417	
	Zinc	ppm	ASTM D5185m	0	51	48	
	Sulfur	ppm	ASTM D5185m		982	1042	
	Acid Number (AN)			0.00	0.404	0.10	

0.13

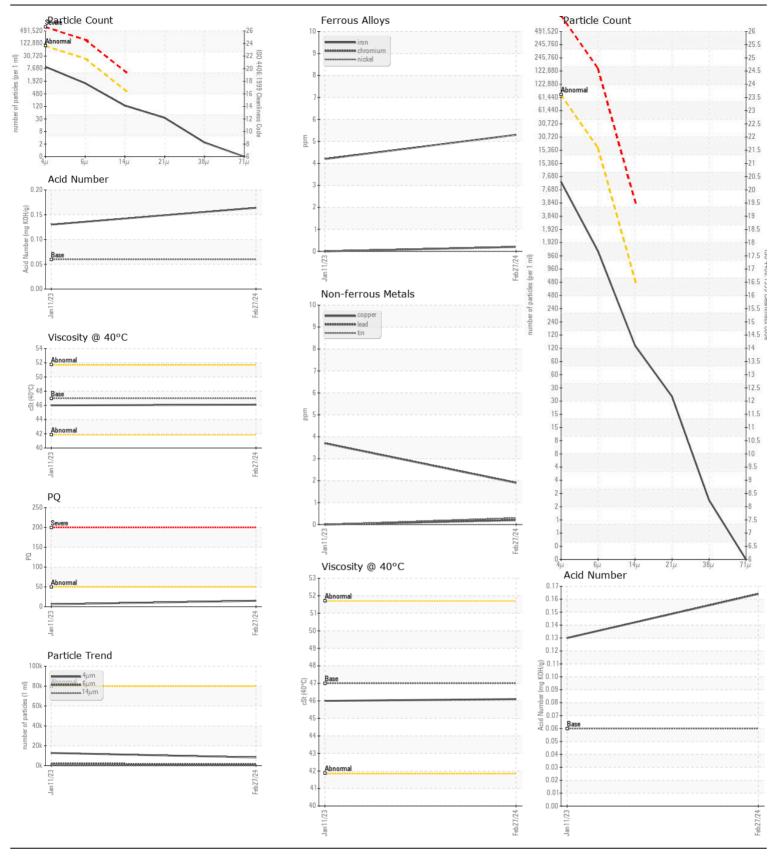
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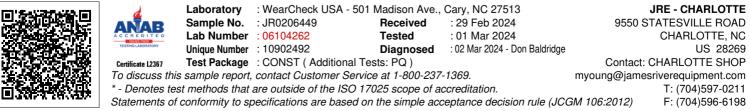
46.1

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47

46.0 ----





Submitted By: Mike Young - CHARLOTTE SHOP