

[W67022-4]

JOHN DEERE 331G 1T0331GKAPF443018

Hydraulic System

JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

A decrease in the iron level is noted. All other component wear rates are normal.

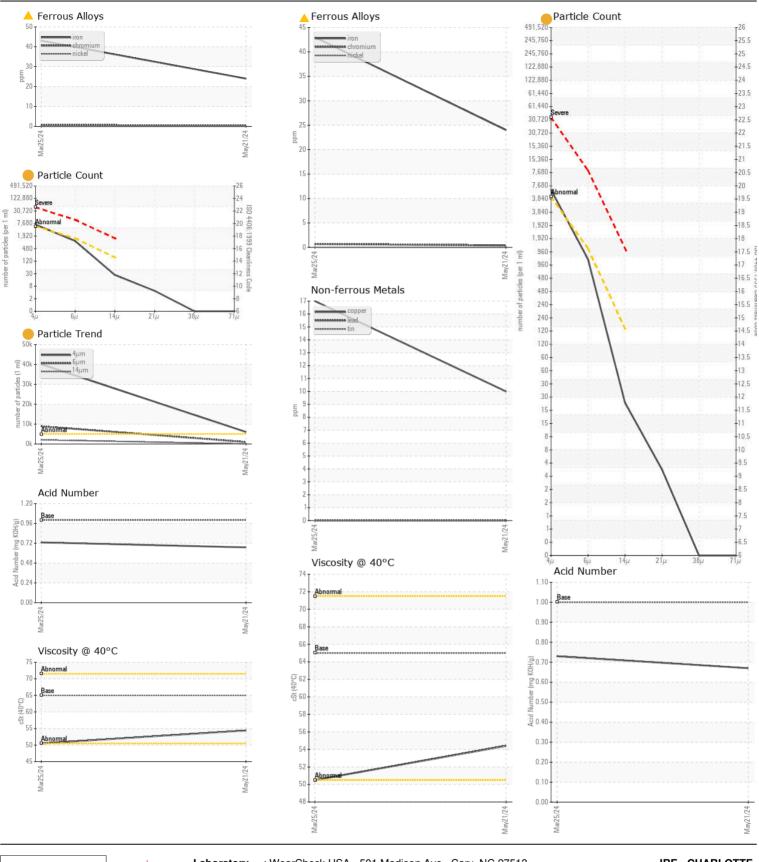
CONTAMINATION

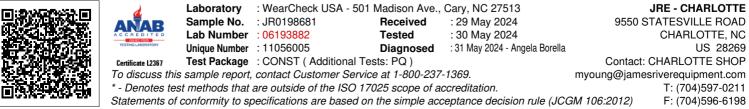
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198681	JR0206411	
Sample Date		Client Info		21 May 2024	25 Mar 2024	
Machine Age	hrs	Client Info		1120	1006	
Oil Age	hrs	Client Info		1120	1006	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184	00	14	16	
Iron	ppm	ASTM D5185m	-	<u> </u>	4 3	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	1.5	0	0	
Aluminum	ppm	ASTM D5185m	>10	5	10	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>75	10	17	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
0'''				-		
Silicon	ppm	ASTM D5185m	>20	7	11	
Potassium	ppm	ASTM D5185m		<1	<1	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647		6027	40089	
Particles >6µm		ASTM D7647	>1300	981	▲ 8885	
Particles >14µm		ASTM D7647	>160	23	▲ 2083	
Particles >21µm		ASTM D7647	>40	4	▲ 729	
Particles >38µm		ASTM D7647		0	<u> </u>	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)		20/17/12	▲ 23/20/18	
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	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		2	2	
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		2	0	
Calcium		ASTM D5185m	87	102	79	
Phosphorus	ppm	ASTM D5185m	727	727	636	
Zinc	ppm	ASTM D5185m	900	909	790	
Sulfur	ppm	ASTM D5185m		909 2046		
	ppm		1500		1813	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.73	
Visc @ 40°C	cSt	ASTM D445	65	54.4	50.5	





Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2