

#### Machine Id JOHN DEERE 848L 1DW848LBLMF710505 Component Hydraulic System Fluid JOHN DEERE HYDRAU (--- QTS)

#### RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

## **WEAR**

All component wear rates are normal.

## CONTAMINATION

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

# FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179433	JR0107089	
Sample Date		Client Info		29 Sep 2023	05 Nov 2021	
Machine Age	hrs	Client Info		4185	551	
Oil Age	hrs	Client Info		0	551	
Filter Age	hrs	Client Info		0	551	
Oil Changed		Client Info		Changed	Not Change	
Filter Changed		Client Info		Changed	Not Change	
Sample Status				SEVERE	ATTENTION	
PQ		ASTM D8184		16	20	
Iron	ppm	ASTM D5185m	>20	9	2	
Chromium	ppm	ASTM D5185m	>10	3	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	<1	<1	
Copper	ppm	ASTM D5185m	>75	5	9	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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Silicon	ppm	ASTM D5185m	>20	4	5	
Potassium	ppm	ASTM D5185m	>20	2	9	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	<b>78342</b>	6256	
Particles >6µm		ASTM D7647	>1300	<b>4361</b>	793	
Particles >14µm		ASTM D7647	>160	24	29	
Particles >21µm		ASTM D7647	>40	5	7	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >7 1µm		ASTM D7647	>3	0	0	
Oli Cleaniiness		ISO 4406 (C)	>19/1//14	A 23/19/12	20/17/12	
Slit	scalar	*Visual	NONE	NONE	NONE	
Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	scalar	*Visual	NORM	NONE	NOR	
Odor	scalar	*Visual	NORM	NORWL		
Emulsified Water	scalar	*Visual		NEG	NEG	
	Scalai	visual	20.1		NLG	
Sodium	ppm	ASTM D5185m		1	<1	
Boron	ppm	ASTM D5185m		0	1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		<1	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		5	5	
Calcium	ppm	ASTM D5185m	87	181	102	
Phosphorus	ppm	ASTM D5185m	727	639	609	
Zinc	ppm	ASTM D5185m	900	875	857	
Sulfur	ppm	ASTM D5185m	1500	1878	2160	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.61	0.756	
Visc @ 40°C	cSt	ASTM D445	65	57.4	60.8	





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