

Machine Id JOHN DEERE 850L 1T0850LXHPF445799 Component Hydraulic System Fluid JOHN DEERE HYDRAU (140 GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation.



All component wear rates are normal.

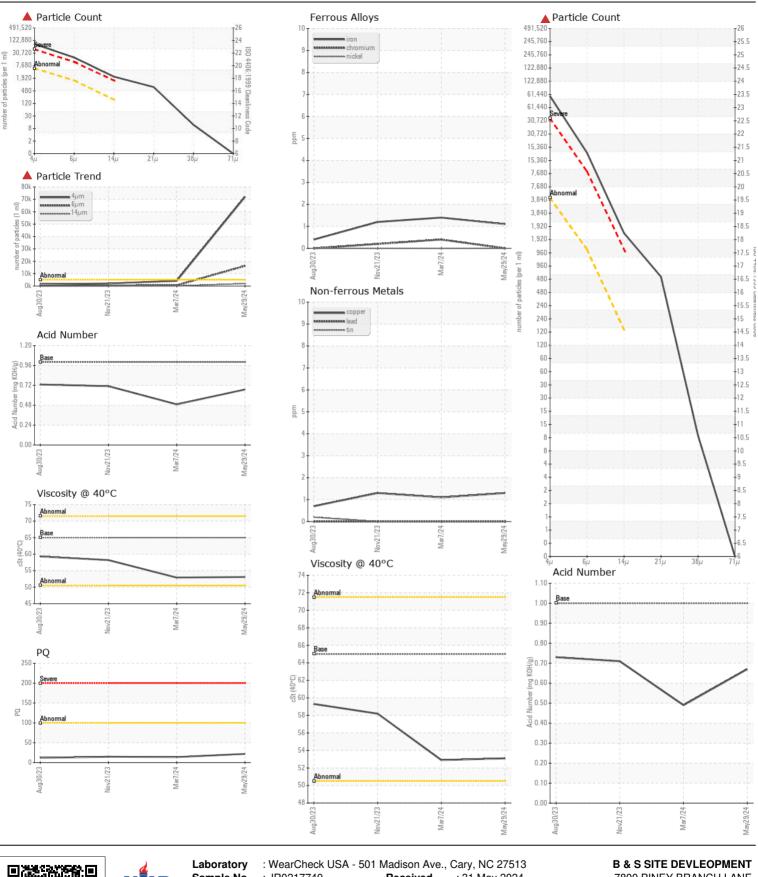
CONTAMINATION

There is a high amount of particulates (2 to 100 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		JR0217740	JR0208274	JR0196055
Sample Date		Client Info		29 May 2024	07 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		1966	1471	966
Oil Age	hrs	Client Info		1966	1471	966
Filter Age	hrs	Client Info		1966	1471	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				SEVERE	NORMAL	NORMAL
PQ		ASTM D8184		22	14	15
Iron	ppm	ASTM D5185m	>20	1	1	1
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	16	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	1	1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	1	1	2
Potassium	ppm	ASTM D5185m	>20	1	2	6
Water	ppiii	WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	A 71921	4182	2100
Particles >6µm		ASTM D7647	>1300	16282	567	406
Particles >14µm		ASTM D7647	>160	1990	41	27
Particles >21µm		ASTM D7647	>40	▲ 635	13	8
Particles >38µm		ASTM D7647	>10	10	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/21/18	19/16/13	18/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	NEG	NEG	NEG
· · · · · · · · · · · · · · · · · · ·						
Sodium	ppm	ASTM D5185m		<1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	07	0	1	2
Calcium	ppm	ASTM D5185m	87	92	90	166
Phosphorus	ppm	ASTM D5185m	727	622	583	662
Zinc	ppm	ASTM D5185m	900	581	558	879
Sulfur	ppm	ASTM D5185m	1500	1737	1472	1978
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.49	0.71
Visc @ 40°C	cSt	ASTM D445	65	53.1	52.9	58.2



Sample No. : JR0217740 7800 PINEY BRANCH LANE Received : 31 May 2024 Lab Number BRISTOW, VA : 06196584 Tested : 03 Jun 2024 Unique Number : 11058707 : 03 Jun 2024 - Wes Davis US 20136 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DANNY HUFF Certificate L2367 dhuff@bandssite.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (540)270-3203 F: (703)753-0605

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2