

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Store 5 - Cross Lanes JOHN DEERE 648L2 1DW648LBJJF692956 Hydraulic System Fluid JOHN DEERE HYDRAU (33 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

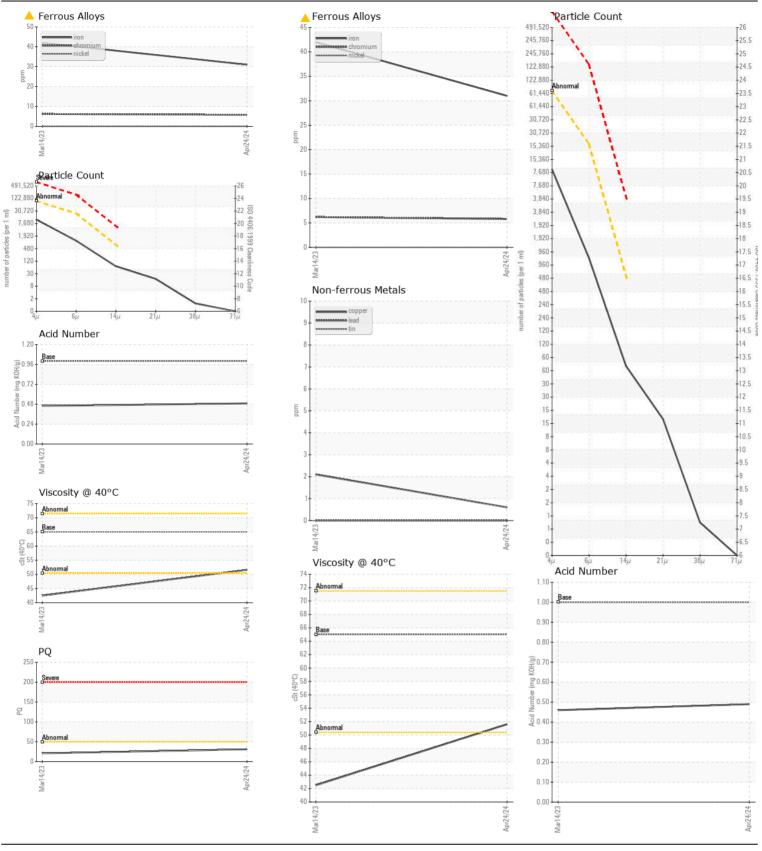
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0040744	LEC0039402	
Sample Date		Client Info		24 Apr 2024	14 Mar 2023	
Machine Age	hrs	Client Info		6354	5123	
Oil Age	hrs	Client Info		2354	5123	
Filter Age	hrs	Client Info		2354	0	
Oil Changed	-	Client Info		Changed	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
PQ		ASTM D8184	>50	31	21	
Iron	ppm	ASTM D5185m	>23	A 31	4 2	
Chromium	ppm	ASTM D5185m	>9	6	6	
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	2	
Lead	ppm	ASTM D5185m	>28	0	0	
Copper	ppm	ASTM D5185m	>51	<1	2	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>31	8	11	
Potassium	ppm	ASTM D5185m		<1	0	
Water	le le	WC Method	>0.075	NEG	NEG	
Particles >4µm		ASTM D7647		10295	26490	
Particles >6µm		ASTM D7647	>20000	1011	2909	
Particles >14µm		ASTM D7647	>640	60	137	
Particles >21µm		ASTM D7647	>160	15	29	
Particles >38µm		ASTM D7647	>40	1	0	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)		21/17/13	22/19/14	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	VLITE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual	>0.075	NEG	NEG	
Sodium		ASTM D5185m	>21	<1	0	
Boron	ppm ppm	ASTM D5185m	261	<i 1</i 	3	
Barium		ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0 <1	2	
-	ppm	ASTM D5185m		<1 <1		
Manganese	ppm			<1 5	<1 8	
Magnesium Calcium	ppm	ASTM D5185m	07			
	ppm	ASTM D5185m	87 707	326	513	
Phosphorus Zinc	ppm	ASTM D5185m	727	547 674	625	
-	ppm	ASTM D5185m	900	674	778	
Sulfur	ppm	ASTM D5185m		2011	2642	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.49	0.46	

51.6

42.5

Visc @ 40°C cSt ASTM D445 65



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 • Sample No. Received 105 TENNIS CENTER DR. : LEC0040744 : 26 Apr 2024 Lab Number : 06161359 MARIETTA, OH Tested : 29 Apr 2024 : 29 Apr 2024 - Don Baldridge US 45750-9765 Unique Number : 10996782 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE 3 - NORTON - BRIAN YOUTZY Page 2 of 2