

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

{unassigned} JOHN DEERE 644K 1DW644KZJKF694571 Component Front Axle

JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

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

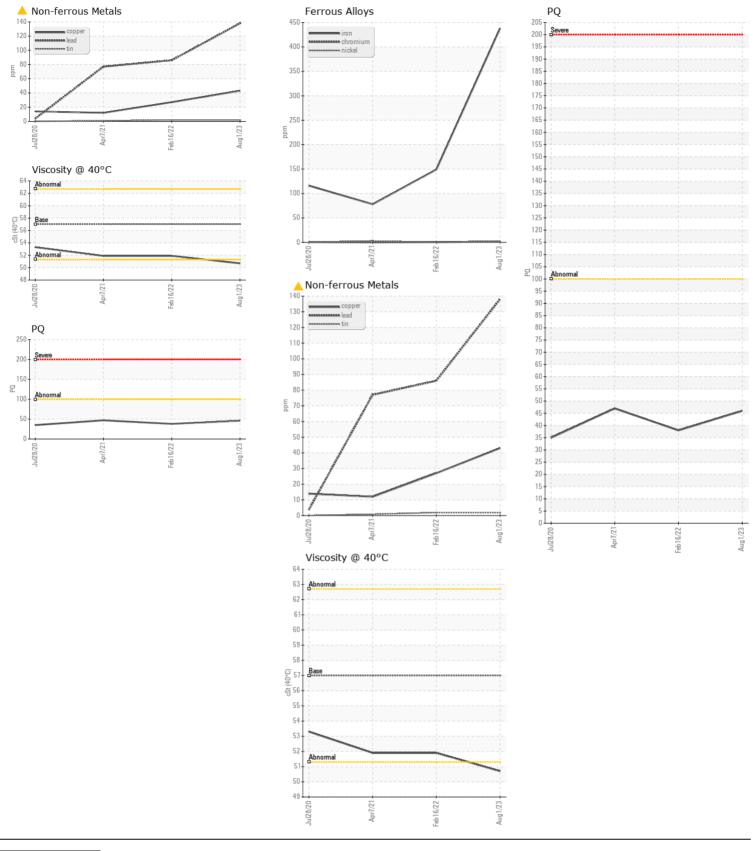
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

RANS (D GAL)								
	Test	UOM	Method	Limit/Abn	Current	History1	History2	
	Sample Number		Client Info		LEC0043743	LEC0027571	LEC0020077	
	Sample Date		Client Info		01 Aug 2023	16 Feb 2022	07 Apr 2021	
	Machine Age	hrs	Client Info		3330	1870	1224	
	Oil Age	hrs	Client Info		1460	1870	1224	
	Filter Age	hrs	Client Info		2106	646	1224	
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	None	Changed	
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
	PQ		ASTM D8184		46	38	47	
	Iron	ppm	ASTM D5185m	>750	438	149	78	
	Chromium	ppm	ASTM D5185m	>11	1	<1	<1	
	Nickel	ppm	ASTM D5185m	>10	<1	0	3	
	Titanium	ppm	ASTM D5185m		<1	<1	0	
	Silver	ppm	ASTM D5185m		0	0	<1	
	Aluminum	ppm	ASTM D5185m	>21	3	1	0	
	Lead	ppm	ASTM D5185m	>49	<u> </u>	86	77	
	Copper	ppm	ASTM D5185m	>101	43	27	12	
	Tin	ppm	ASTM D5185m	>10	2	2	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
	Silicon	ppm	ASTM D5185m	>31	13	7	0	
	Potassium	ppm	ASTM D5185m	>20	2	0	7	
	Water	ppin	WC Method	>0.1	- NEG	NEG	, NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	▲ MODER	
	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			. 51		E	3	
	Boron	ppm	ASTM D5185m ASTM D5185m	>51 6	7 5	5 5	5	
	Barium	ppm	ASTM D5185m	0	3	0	0	
	Molybdenum	ppm	ASTM D5185m	0	3 <1	1	<1	
	Manganese	ppm	ASTM D5185m	0	6	3	2	
	Magnesium	ppm ppm	ASTM D5185m	145	100	113	77	
	Calcium	ppm	ASTM D5185m	3570	3250	3712	1747	
	Phosphorus	ppm	ASTM D5185m	1290	958	1042	638	
	Zinc	ppm	ASTM D5185m	1640	1156	1239	789	
	Sulfur	ppm	ASTM D5185m	1010	4119	3182	1878	
	Visc @ 40°C	cSt	ASTM D445	57.0	50.7	51.9	51.9	
		501	. 10 111 0 110	07.0		0.10		



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory Sample No. Received 105 TENNIS CENTER DR. : LEC0043743 : 03 Aug 2023 Lab Number : 05915597 Tested MARIETTA, OH : 04 Aug 2023 Diagnosed : 06 Aug 2023 - Don Baldridge Unique Number : 10587511 US 45750-9765 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: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)