

Machine Id JOHN Component Rear D Filuid JOHN

JOHN DEERE 310E 1DW310EXJKF697842

Rear Differential

JOHN DEERE HY-GARD HYD/TRANS (--- 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.

V	V	E	Α	R

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

CONTAMINATION

There is no indication of any contamination in the oil.

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202817	JR0191021	JR0161773
Sample Date		Client Info		20 May 2024	30 Nov 2023	15 Apr 2023
Machine Age	hrs	Client Info		3990	3649	0
Oil Age	hrs	Client Info		0	3649	1000
Filter Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184		264	190	156
Iron	maa	ASTM D5185m	>500	620	563	502
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	- <1	2	3
Titanium	ppm	ASTM D5185m	, 10	0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	4
Lead	ppm	ASTM D5185m	>25	3	0	0
Copper	ppm	ASTM D5185m	>100	426	446	400
Tin	nnm	ASTM D5185m	>10	9	9	8
Vanadium	ppm	ASTM D5185m	210	0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	14	13	16
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	A 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	>.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	5	2
Boron	ppm	ASTM D5185m	6	6	8	10
Barium	ppm	ASTM D5185m	0	2	0	2
Molybdenum	ppm	ASTM D5185m	0	2	2	3
Manganese	ppm	ASTM D5185m		9	9	9
Magnesium	ppm	ASTM D5185m	145	83	84	98
Calcium	ppm	ASTM D5185m	3570	2805	3038	3450
Phosphorus	ppm	ASTM D5185m	1290	965	951	1110
Zinc	ppm	ASTM D5185m	1640	1139	1148	1343
Sulfur	ppm	ASTM D5185m		3578	3019	4166
Visc @ 40°C	cSt	ASTM D445	57.0	53.6	53.3	53.5

Submitted By: JOHN GUASCHINO



Sample No. : JR0202817 Received : 21 May 2024 4161 AUBURN CHURCH RD Ø Lab Number : 06186421 Tested GARNER, NC : 22 May 2024 : 23 May 2024 - Sean Felton US 27529 Unique Number : 11043173 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: RALEIGH SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260 回路 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432

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