



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXHJF691304
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221383	JR0192279	JR0175996
Sample Date		Client Info		17 Jun 2024	30 Nov 2023	14 Jun 2023
Machine Age	hrs	Client Info		5988	5466	4963
Oil Age	hrs	Client Info		0	4521	1000
Filter Age	hrs	Client Info		0	0	1000
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		144	183	268
Iron	ppm	ASTM D5185m	>500	828	835	715
Chromium	ppm	ASTM D5185m	>10	3	2	2
Nickel	ppm	ASTM D5185m	>10	2	1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	2	<1
Lead	ppm	ASTM D5185m	>25	18	15	8
Copper	ppm	ASTM D5185m	>100	219	223	▲ 123
Tin	ppm	ASTM D5185m	>10	10	8	6
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

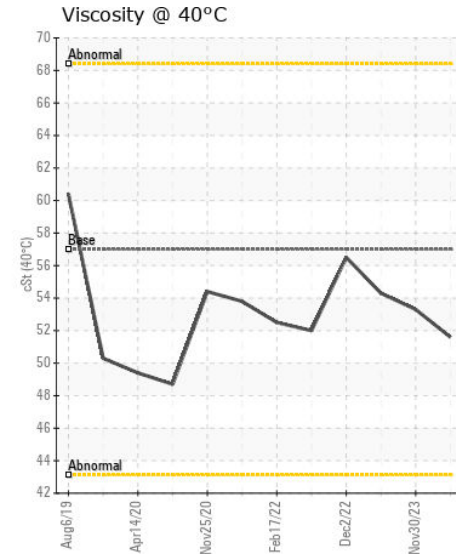
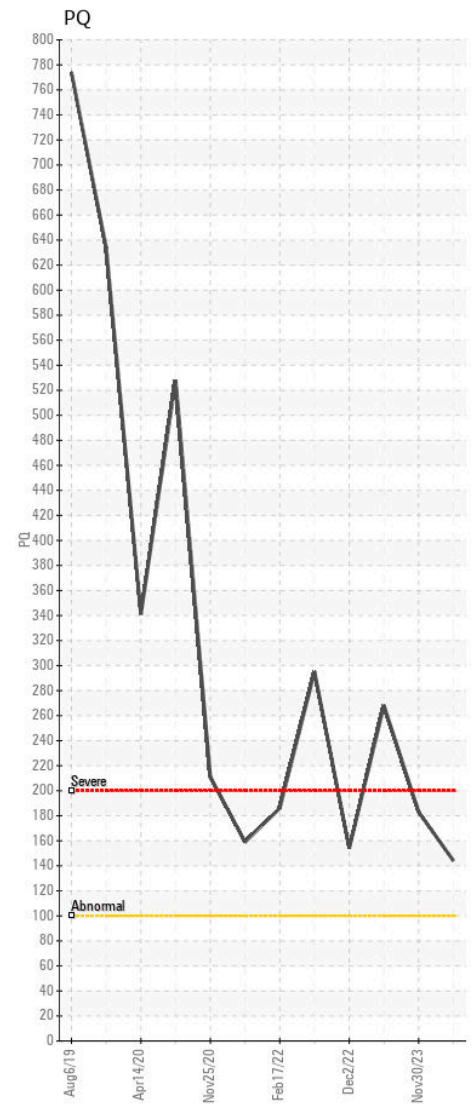
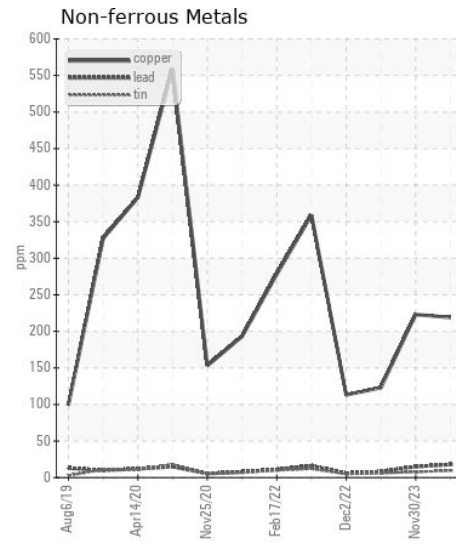
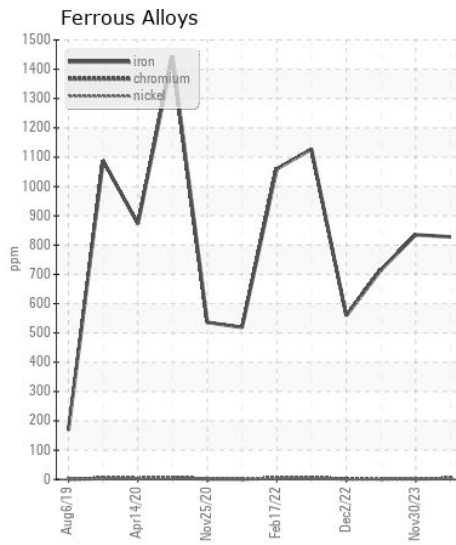
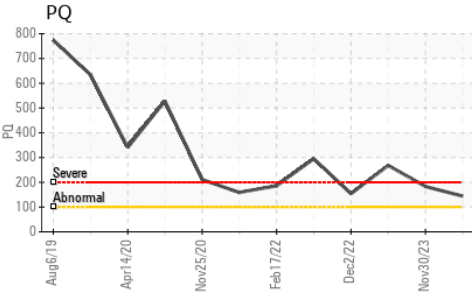
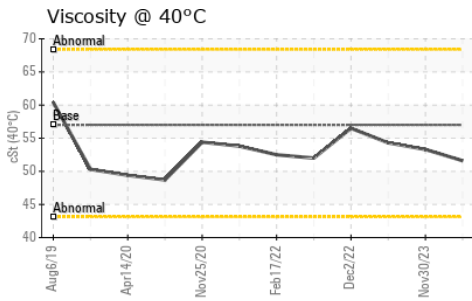
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	18	17	12
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	2	1
Boron	ppm	ASTM D5185m	6	13	14	14
Barium	ppm	ASTM D5185m	0	3	1	0
Molybdenum	ppm	ASTM D5185m	0	13	12	12
Manganese	ppm	ASTM D5185m		9	8	7
Magnesium	ppm	ASTM D5185m	145	130	130	133
Calcium	ppm	ASTM D5185m	3570	3514	3345	3391
Phosphorus	ppm	ASTM D5185m	1290	1052	931	987
Zinc	ppm	ASTM D5185m	1640	1110	1078	1216
Sulfur	ppm	ASTM D5185m		3998	3365	4053
Visc @ 40°C	cSt	ASTM D445	57.0	51.6	53.3	54.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0221383 **Received** : 21 Jun 2024
Lab Number : 06217101 **Tested** : 24 Jun 2024
Unique Number : 11089965 **Diagnosed** : 24 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 26 CATTLEMANS DR
 BERRYVILLE, VA
 US 20134
 Contact: SERVICE MANAGER
 dieselpro44@yahoo.com
 T: (540)327-2857
 F:

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.

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