



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXPLF706554
Component
Center 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		JR0220480	JR0205380	JR0189018
Sample Date		Client Info		15 Jun 2024	22 Mar 2024	03 Nov 2023
Machine Age	hrs	Client Info		4496	4216	4055
Oil Age	hrs	Client Info		4055	161	2607
Filter Age	hrs	Client Info		0	161	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		139	192	217
Iron	ppm	ASTM D5185m	>500	228	420	684
Chromium	ppm	ASTM D5185m	>10	<1	1	3
Nickel	ppm	ASTM D5185m	>10	2	2	4
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	2
Lead	ppm	ASTM D5185m	>25	0	7	14
Copper	ppm	ASTM D5185m	>100	103	114	205
Tin	ppm	ASTM D5185m	>10	2	5	7
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	MODER

CONTAMINATION

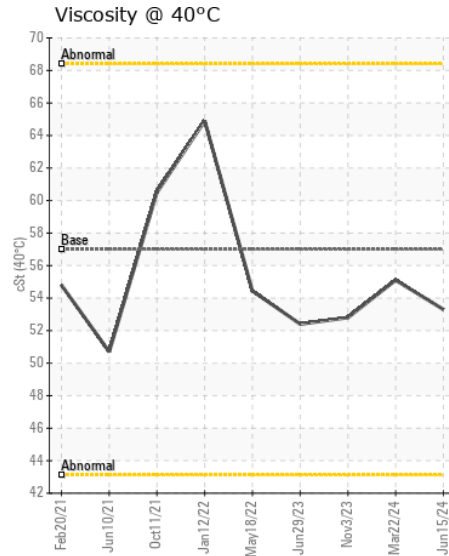
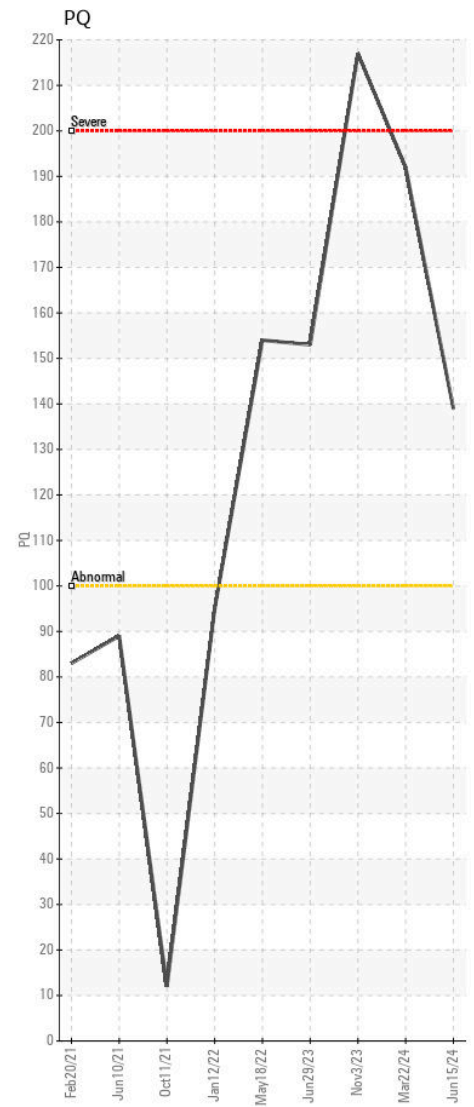
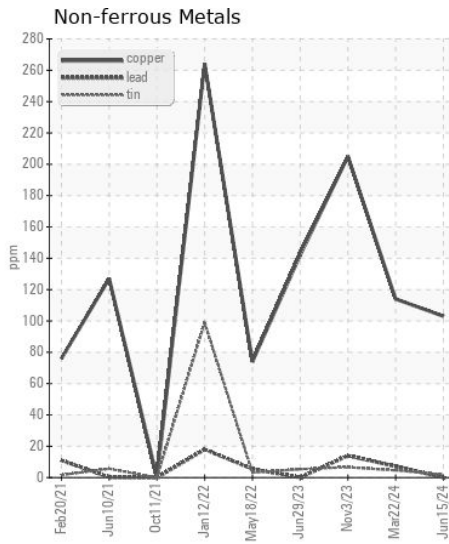
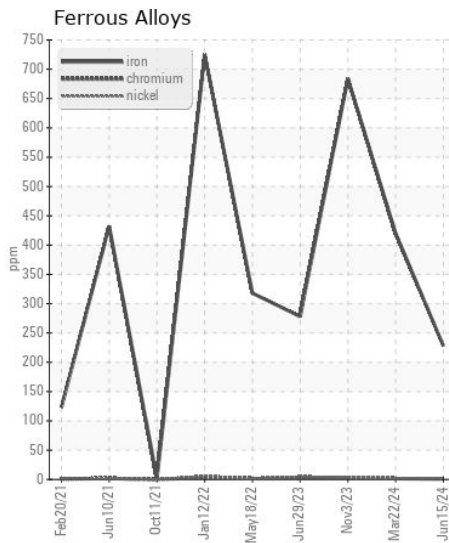
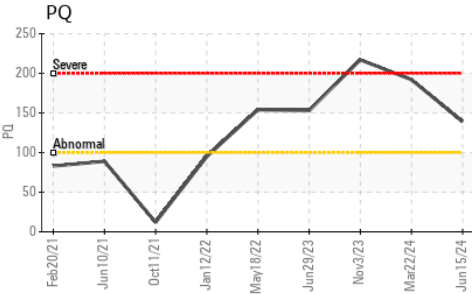
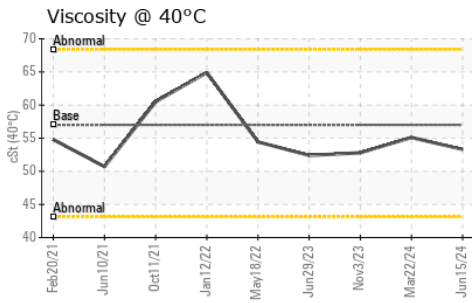
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	9	11	14
Potassium	ppm	ASTM D5185m	>20	<1	1	3
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	4	1
Boron	ppm	ASTM D5185m	6	10	5	8
Barium	ppm	ASTM D5185m	0	<1	0	5
Molybdenum	ppm	ASTM D5185m	0	2	2	6
Manganese	ppm	ASTM D5185m		8	8	12
Magnesium	ppm	ASTM D5185m	145	94	101	93
Calcium	ppm	ASTM D5185m	3570	3321	3383	3442
Phosphorus	ppm	ASTM D5185m	1290	1005	1058	1085
Zinc	ppm	ASTM D5185m	1640	1176	1241	1261
Sulfur	ppm	ASTM D5185m		4107	4023	4380
Visc @ 40°C	cSt	ASTM D445	57.0	53.3	55.1	52.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220480 **Received** : 19 Jun 2024
Lab Number : 06214968 **Tested** : 20 Jun 2024
Unique Number : 11087832 **Diagnosed** : 20 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.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.

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

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