



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXEMF711881
Component
Center Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224442	JR0166063	JR0132550
Sample Date		Client Info		03 Jul 2024	17 Aug 2023	07 Oct 2022
Machine Age	hrs	Client Info		3057	2343	1952
Oil Age	hrs	Client Info		0	2343	0
Filter Age	hrs	Client Info		0	2343	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		83	52	112
Iron	ppm	ASTM D5185m	>500	222	139	286
Chromium	ppm	ASTM D5185m	>10	2	1	2
Nickel	ppm	ASTM D5185m	>10	8	5	13
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	<1	4
Lead	ppm	ASTM D5185m	>25	20	11	17
Copper	ppm	ASTM D5185m	>100	200	▲ 101	▲ 152
Tin	ppm	ASTM D5185m	>10	7	4	7
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

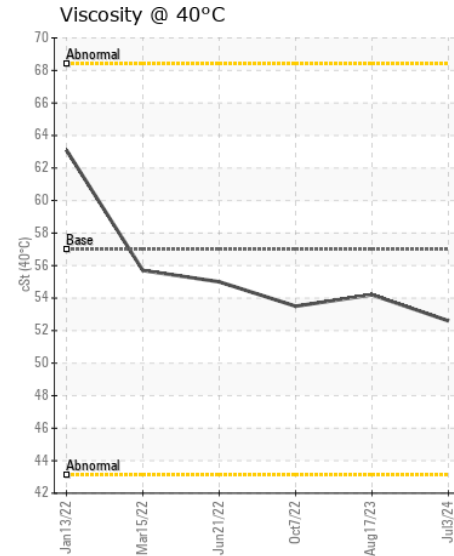
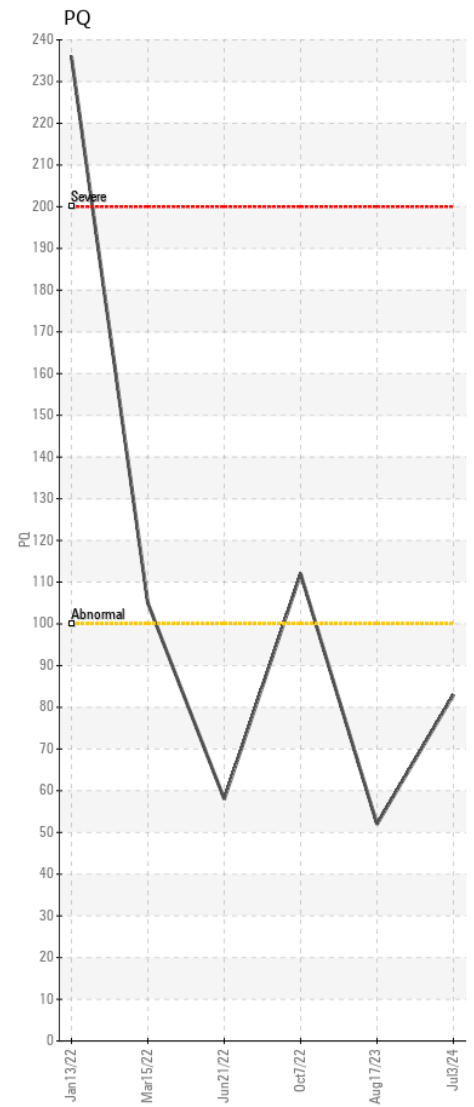
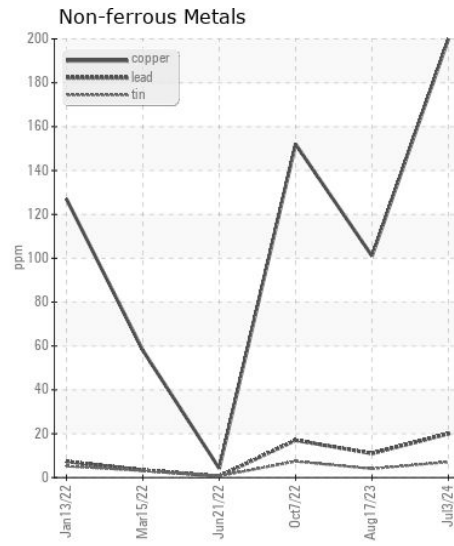
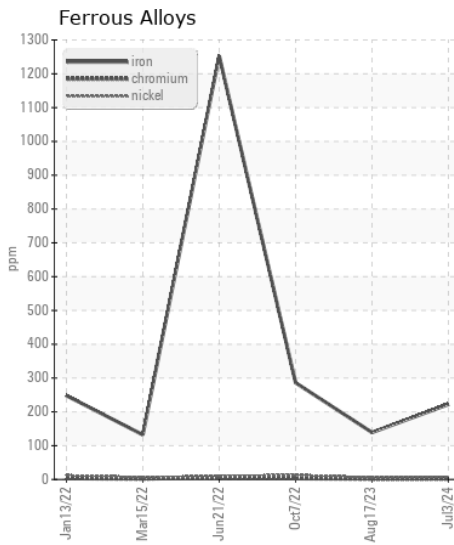
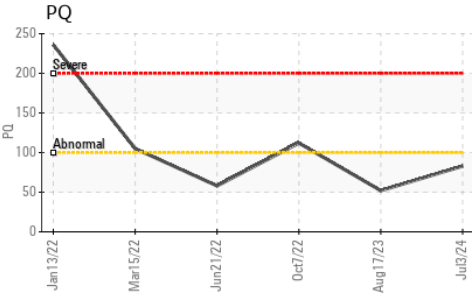
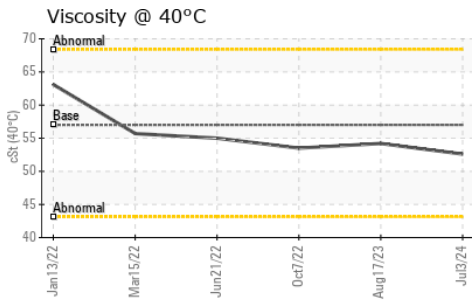
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	15	9	15
Potassium	ppm	ASTM D5185m	>20	0	0	2
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		9	5	10
Boron	ppm	ASTM D5185m	6	23	24	38
Barium	ppm	ASTM D5185m	0	2	1	0
Molybdenum	ppm	ASTM D5185m	0	10	7	6
Manganese	ppm	ASTM D5185m		17	13	27
Magnesium	ppm	ASTM D5185m	145	120	122	104
Calcium	ppm	ASTM D5185m	3570	3716	3412	3604
Phosphorus	ppm	ASTM D5185m	1290	1097	1025	1107
Zinc	ppm	ASTM D5185m	1640	1279	1239	1363
Sulfur	ppm	ASTM D5185m		3969	3966	4365
Visc @ 40°C	cSt	ASTM D445	57.0	52.6	54.2	53.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224442 **Received** : 05 Jul 2024
Lab Number : 06228940 **Tested** : 08 Jul 2024
Unique Number : 11112433 **Diagnosed** : 08 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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