



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXPMF712386
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		JR0194523	JR0156363	JR0121110
Sample Date		Client Info		16 Jan 2024	26 Jan 2023	31 Mar 2022
Machine Age	hrs	Client Info		2594	1951	478
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		14	35	76
Iron	ppm	ASTM D5185m	>500	3	181	110
Chromium	ppm	ASTM D5185m	>10	0	1	2
Nickel	ppm	ASTM D5185m	>10	0	2	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	3	3
Lead	ppm	ASTM D5185m	>25	0	▲ 20	6
Copper	ppm	ASTM D5185m	>100	3	▲ 185	68
Tin	ppm	ASTM D5185m	>10	0	7	4
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

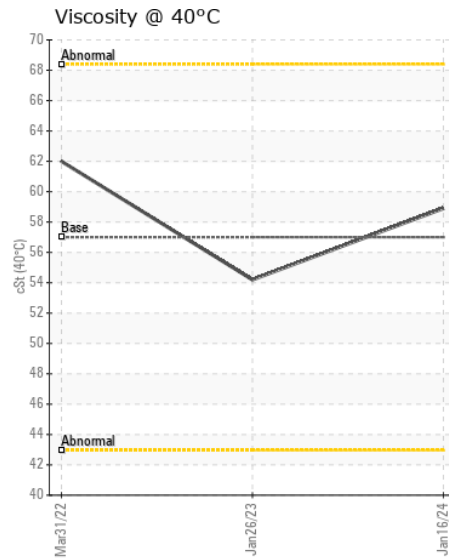
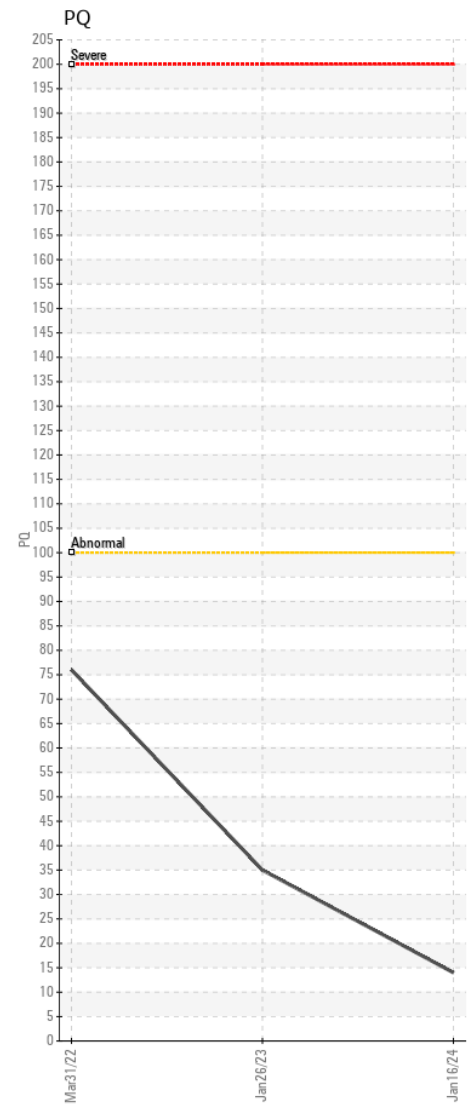
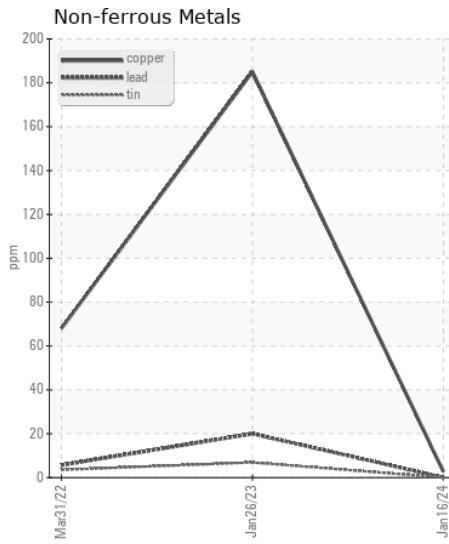
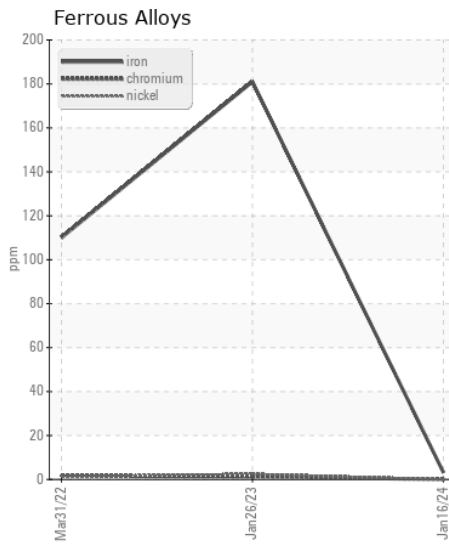
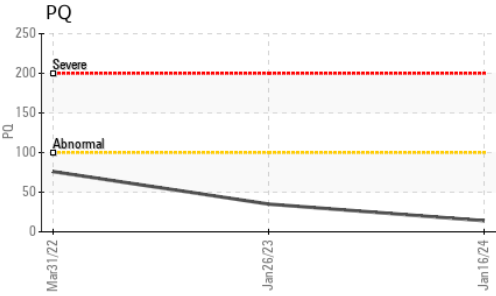
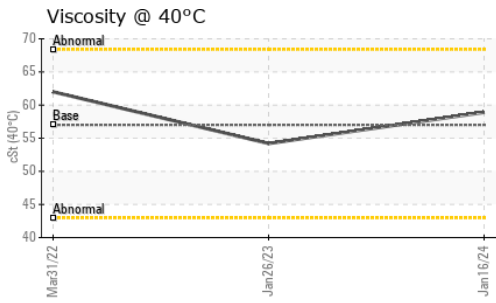
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	9	10
Potassium	ppm	ASTM D5185m	>20	0	<1	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		1	8	17
Boron	ppm	ASTM D5185m	6	2	29	102
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m		0	18	31
Magnesium	ppm	ASTM D5185m	145	109	77	24
Calcium	ppm	ASTM D5185m	3570	3326	3230	3807
Phosphorus	ppm	ASTM D5185m	1290	1081	982	1272
Zinc	ppm	ASTM D5185m	1640	1258	1222	1624
Sulfur	ppm	ASTM D5185m		3761	3822	3183
Visc @ 40°C	cSt	ASTM D445	57.0	58.9	54.2	62.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194523 **Received** : 17 Jan 2024
Lab Number : 06063057 **Diagnosed** : 18 Jan 2024
Unique Number : 10834439 **Diagnostician** : Wes Davis
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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