



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

BURKEVILLE

Machine Id

JOHN DEERE 300D M01-0305 1DW300DXECE650170

Component

Hydraulic System

Fluid

JOHN DEERE HY-GARD HYD/TRANS (21 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224912	JR0199726	JRMC405937
Sample Date		Client Info		02 Jul 2024	08 Mar 2024	05 May 2016
Machine Age	hrs	Client Info		12271	11804	2838
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	23	16	15.0
Iron	ppm	ASTM D5185m	>23	12	11	23
Chromium	ppm	ASTM D5185m	>9	7	6	1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>9	4	3	2
Lead	ppm	ASTM D5185m	>28	0	2	0
Copper	ppm	ASTM D5185m	>51	2	3	6
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

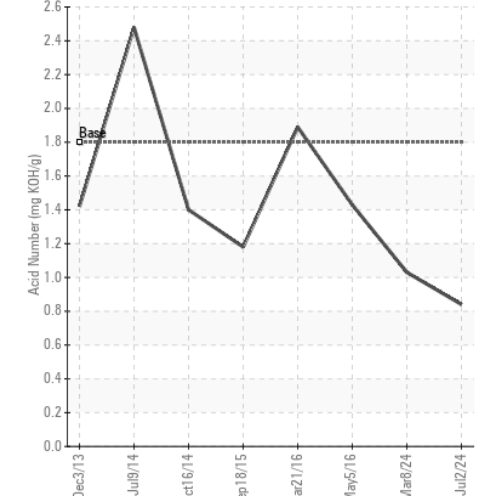
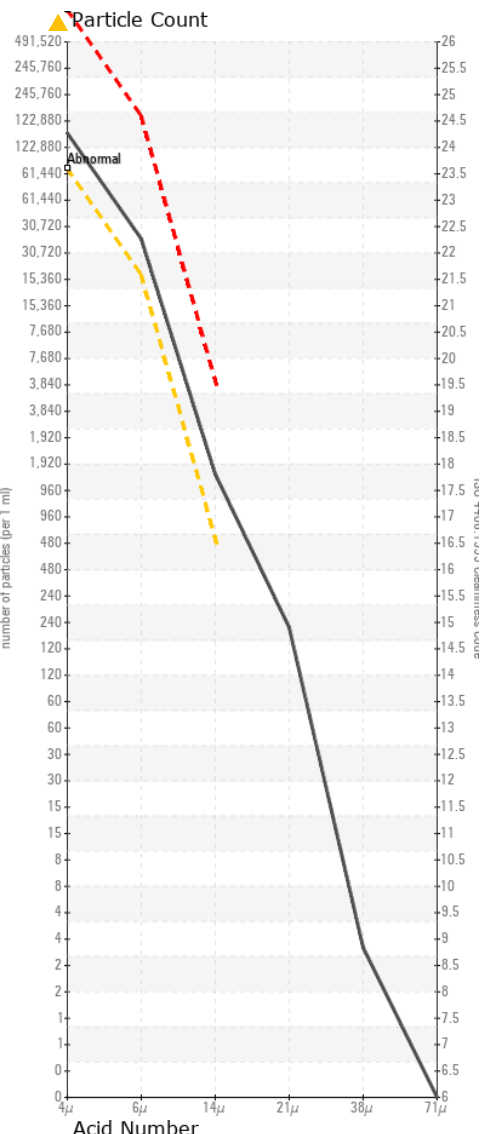
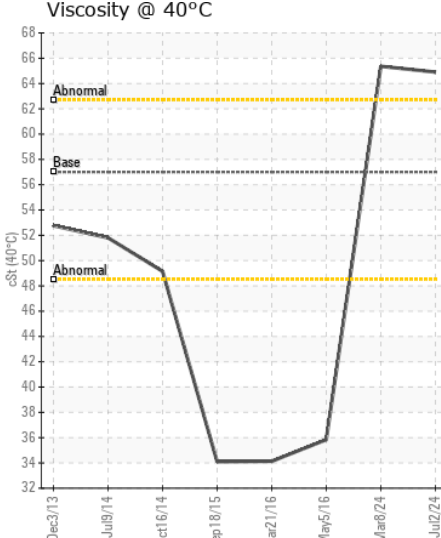
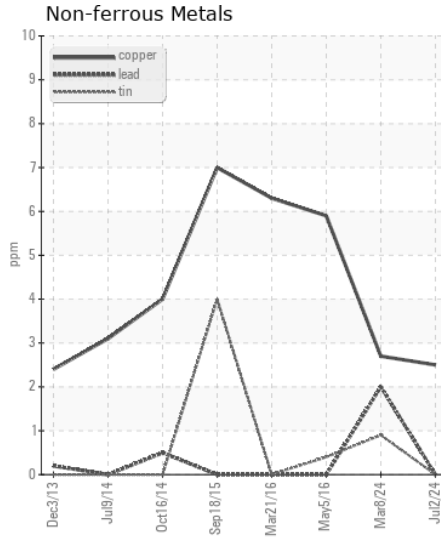
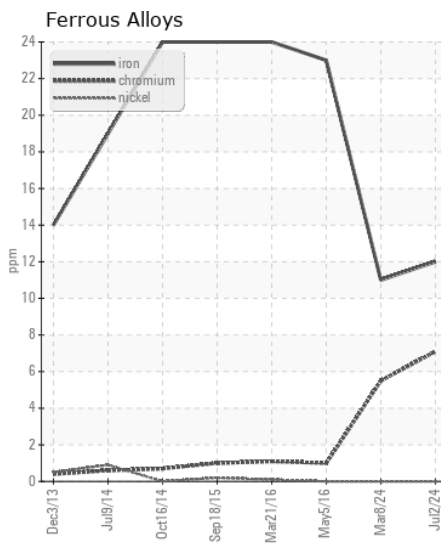
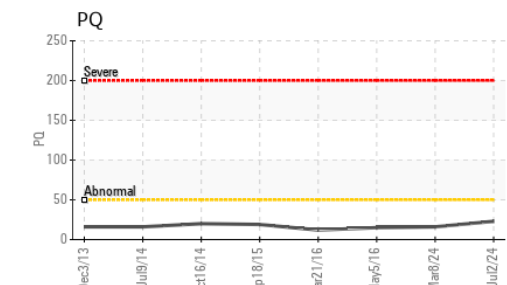
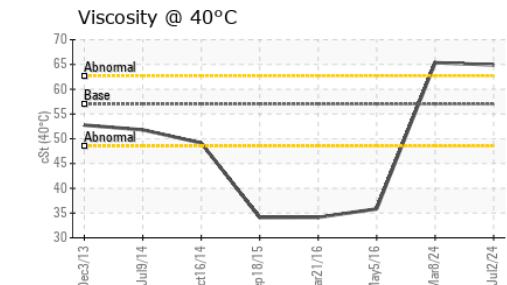
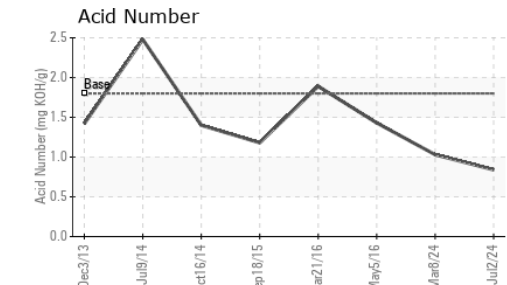
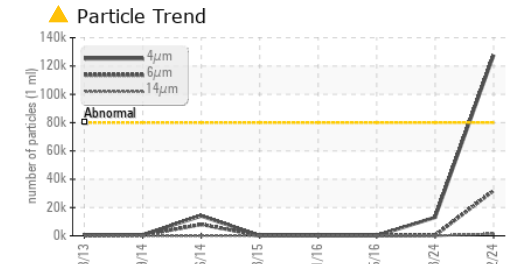
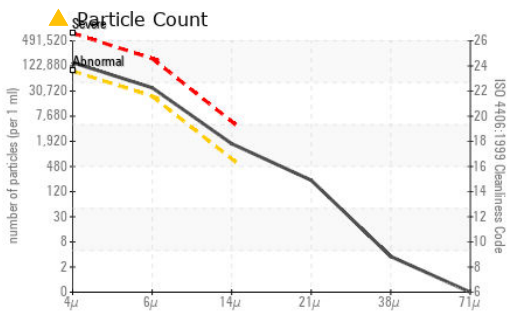
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>31	16	11	8
Potassium	ppm	ASTM D5185m	>20	1	2	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	▲ 127657	13050	147
Particles >6µm		ASTM D7647	>20000	▲ 32001	371	80
Particles >14µm		ASTM D7647	>640	▲ 1475	14	13
Particles >21µm		ASTM D7647	>160	▲ 198	4	4
Particles >38µm		ASTM D7647	>40	3	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	▲ 24/22/18	21/16/11	14/13/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	3	3
Boron	ppm	ASTM D5185m	6	4	4	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	3	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	31	22	114
Calcium	ppm	ASTM D5185m	3570	2188	2022	2157
Phosphorus	ppm	ASTM D5185m	1290	718	638	779
Zinc	ppm	ASTM D5185m	1640	848	715	909
Sulfur	ppm	ASTM D5185m		3234	2842	4309
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.84	1.03	1.43
Visc @ 40°C	cSt	ASTM D445	57.0	64.9	65.36	35.84



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224912 **Received** : 05 Jul 2024
Lab Number : 06228433 **Tested** : 08 Jul 2024
Unique Number : 11111926 **Diagnosed** : 08 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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 F: x:

Certificate L2367
 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)