



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area
[W50925]
 Machine Id
JOHN DEERE 300D BE300DT201357
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W50925)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0222547	JR0130318	JR0034249
Sample Date		Client Info		27 Jun 2024	16 May 2022	21 Nov 2019
Machine Age	hrs	Client Info		11829	10825	9961
Oil Age	hrs	Client Info		11829	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	N/A	Not Chngd
Filter Changed		Client Info		Not Chngd	N/A	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	19	25	11
Iron	ppm	ASTM D5185m	>23	2	3	2
Chromium	ppm	ASTM D5185m	>9	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	3	<1
Aluminum	ppm	ASTM D5185m	>9	9	2	2
Lead	ppm	ASTM D5185m	>28	4	3	<1
Copper	ppm	ASTM D5185m	>51	7	7	2
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

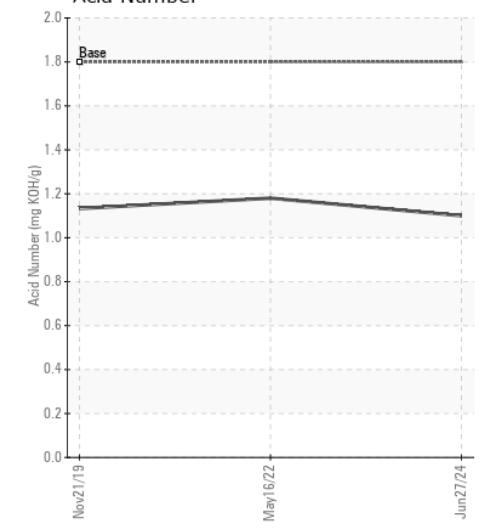
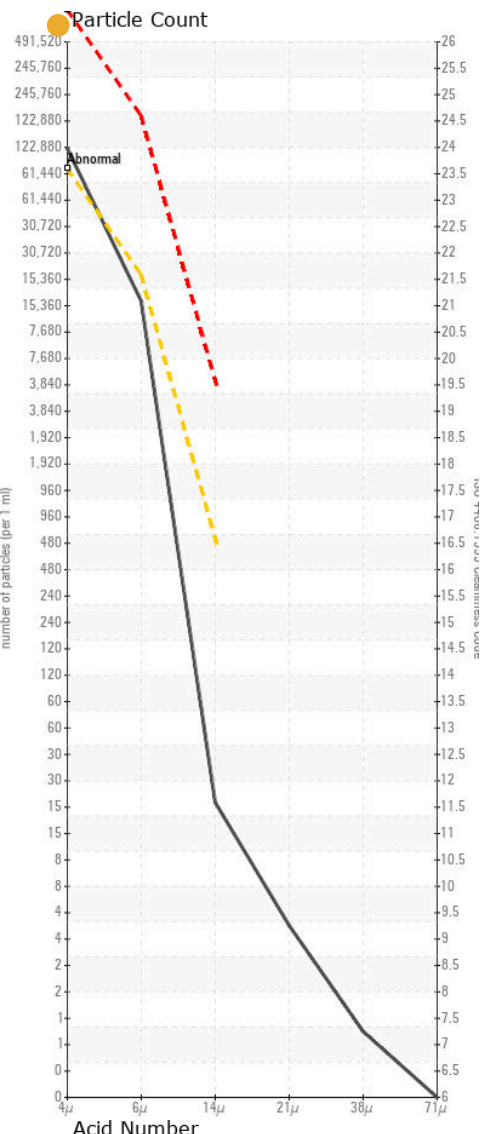
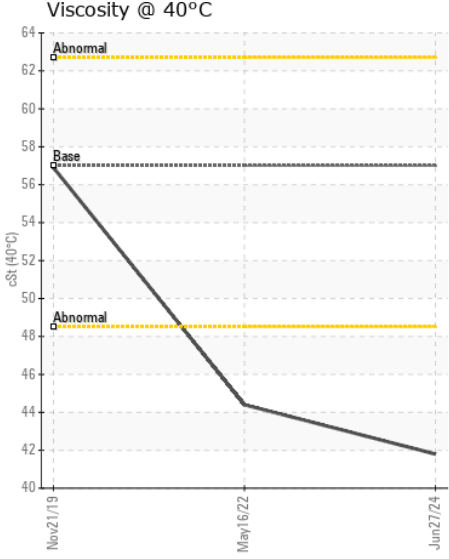
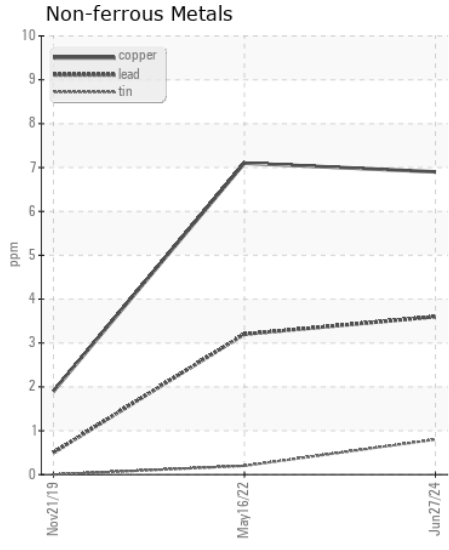
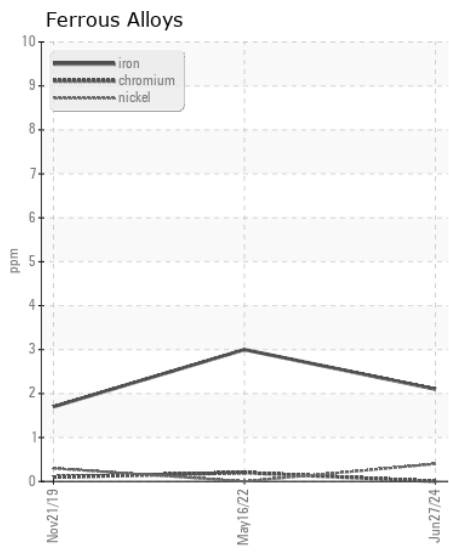
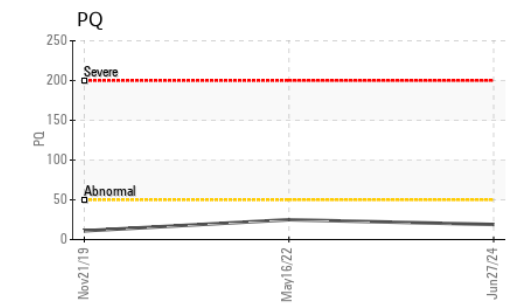
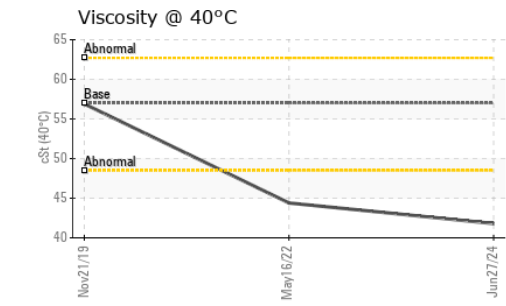
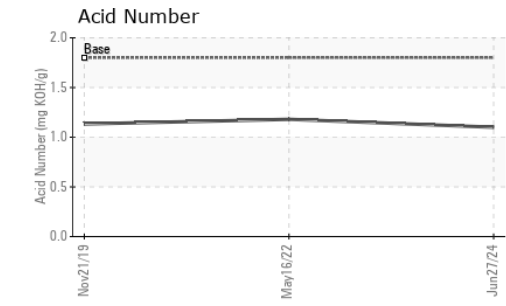
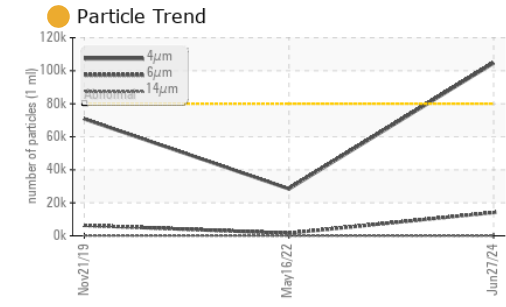
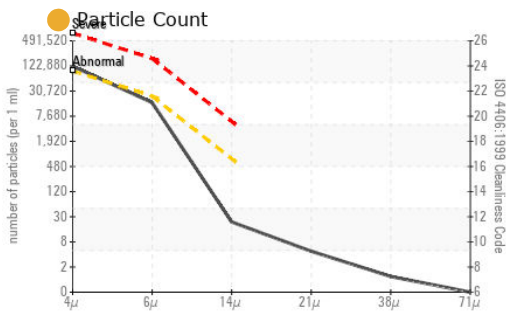
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>31	10	12	12
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	104651	▲ 28426	▲ 70799
Particles >6µm		ASTM D7647	>20000	14114	● 1585	▲ 6346
Particles >14µm		ASTM D7647	>640	20	72	133
Particles >21µm		ASTM D7647	>160	4	15	49
Particles >38µm		ASTM D7647	>40	1	0	4
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	24/21/11	▲ 22/18/13	▲ 23/20/14
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	>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	<1	0	0
Boron	ppm	ASTM D5185m	6	9	6	9
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	5	3	4
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	37	24	27
Calcium	ppm	ASTM D5185m	3570	3282	3259	3209
Phosphorus	ppm	ASTM D5185m	1290	913	814	830
Zinc	ppm	ASTM D5185m	1640	1170	1007	1033
Sulfur	ppm	ASTM D5185m		4089	2850	2763
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.10	1.18	1.133
Visc @ 40°C	cSt	ASTM D445	57.0	41.8	44.4	56.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222547 **Received** : 01 Jul 2024
Lab Number : 06224986 **Tested** : 02 Jul 2024
Unique Number : 11103183 **Diagnosed** : 03 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com
 T:
 F:

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)