



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W21615-PAGE]

Machine Id
JOHN DEERE 3025E 1LV3025EFL142095

Component
Hydraulic System

Fluid
JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. 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		JR0210776	JR0110605	JR0082040
Sample Date		Client Info		01 Apr 2024	01 Dec 2021	18 Mar 2021
Machine Age	hrs	Client Info		445	105	42
Oil Age	hrs	Client Info		0	105	42
Filter Age	hrs	Client Info		0	105	42
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		19	24	23
Iron	ppm	ASTM D5185m	>20	▲ 36	▲ 26	17
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		2	<1	<1
Aluminum	ppm	ASTM D5185m	>10	5	2	3
Lead	ppm	ASTM D5185m	>10	5	2	0
Copper	ppm	ASTM D5185m	>75	68	27	9
Tin	ppm	ASTM D5185m	>10	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

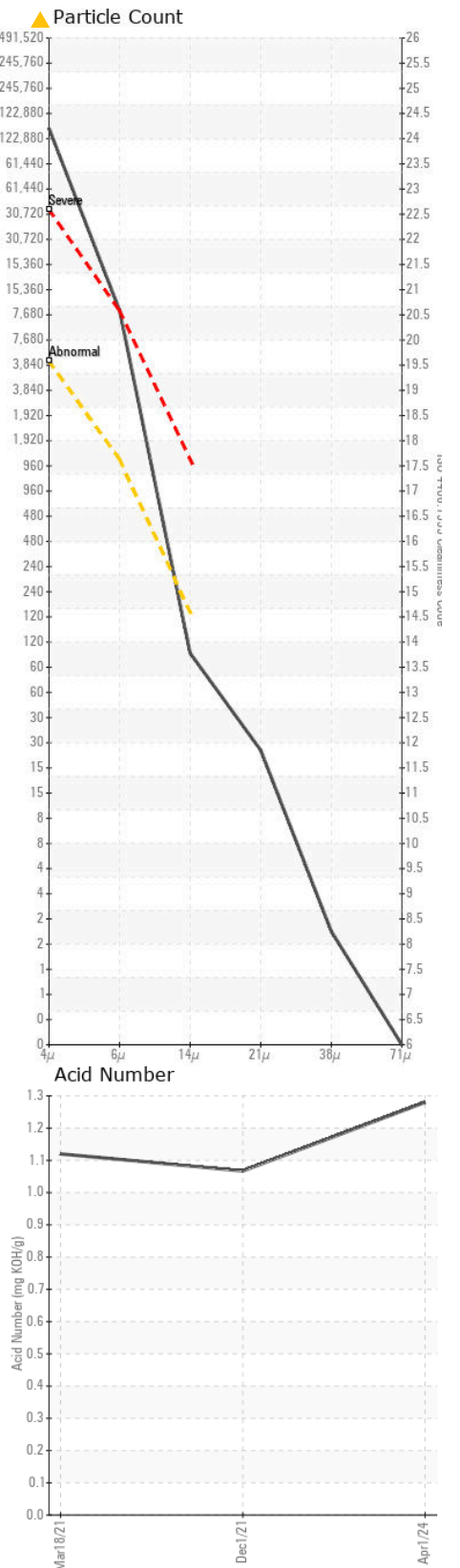
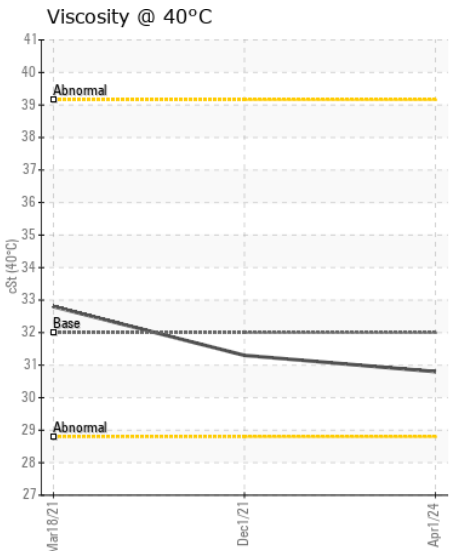
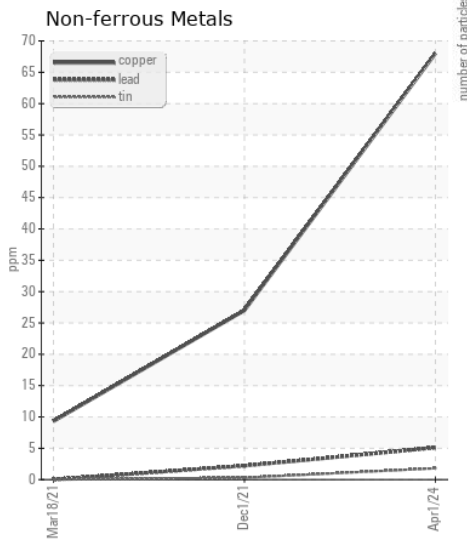
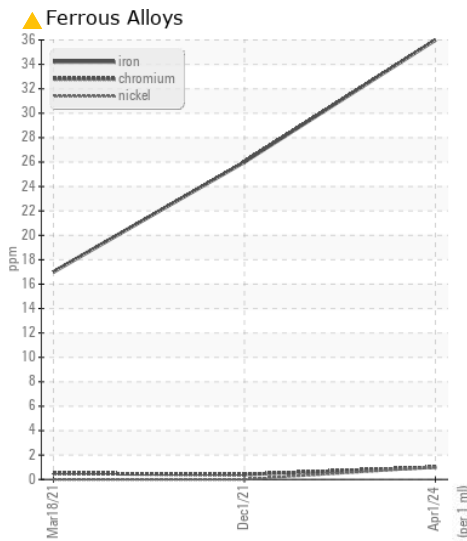
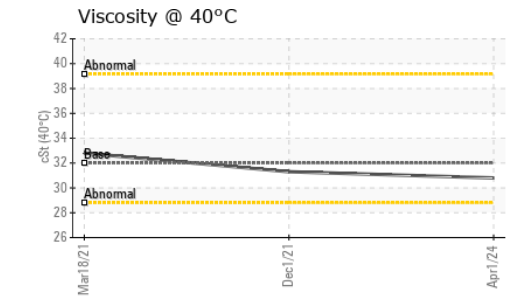
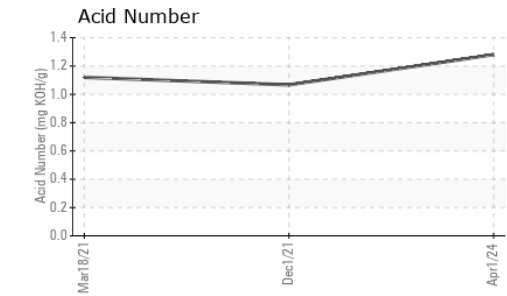
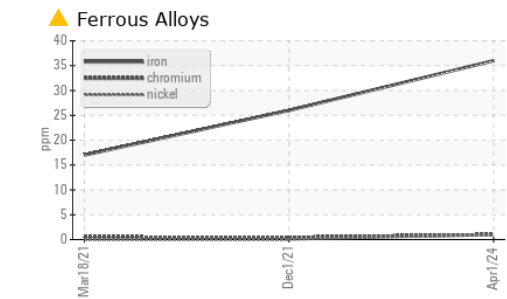
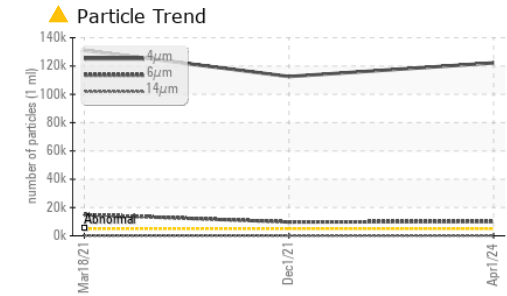
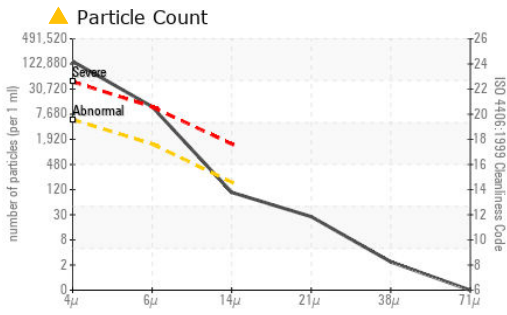
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	15	14	14
Potassium	ppm	ASTM D5185m	>20	5	4	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 122219	▲ 112549	▲ 131062
Particles >6µm		ASTM D7647	>1300	▲ 10067	▲ 9769	▲ 14962
Particles >14µm		ASTM D7647	>160	91	59	45
Particles >21µm		ASTM D7647	>40	24	15	9
Particles >38µm		ASTM D7647	>10	2	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/14	▲ 24/20/13	▲ 24/21/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.1	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		3	0	4
Boron	ppm	ASTM D5185m		3	4	3
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		99	110	105
Calcium	ppm	ASTM D5185m		3496	3693	3688
Phosphorus	ppm	ASTM D5185m		1015	1053	1013
Zinc	ppm	ASTM D5185m		1148	1242	1180
Sulfur	ppm	ASTM D5185m		3583	2862	2767
Acid Number (AN)	mg KOH/g	ASTM D8045		1.28	1.067	1.120
Visc @ 40°C	cSt	ASTM D445	32	30.8	31.3	32.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210776 **Received** : 11 Apr 2024
Lab Number : 06146517 **Tested** : 12 Apr 2024
Unique Number : 10976595 **Diagnosed** : 15 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - BURKEVILLE
 510 WEST COLONIAL DR
 BURKEVILLE, VA
 US 23922
 Contact: BRANDON BOLLING
 bbolling@jamesriverequipment.com
 T: (434)767-5578
 F: (434)767-3774

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)