



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W00346]

Machine Id
JOHN DEERE 3035D 1PY3035DLMB001457

Component
Hydraulic System

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

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0209065	JR0159168	JR0041683
Sample Date		Client Info		13 Jun 2024	25 Jan 2023	21 Dec 2021
Machine Age	hrs	Client Info		418	201	81
Oil Age	hrs	Client Info		418	0	0
Filter Age	hrs	Client Info		337	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ 33	24	17
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	2	2
Lead	ppm	ASTM D5185m	>10	1	1	<1
Copper	ppm	ASTM D5185m	>75	12	8	3
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

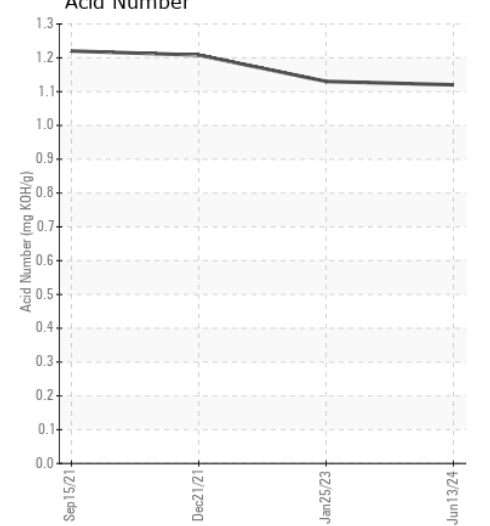
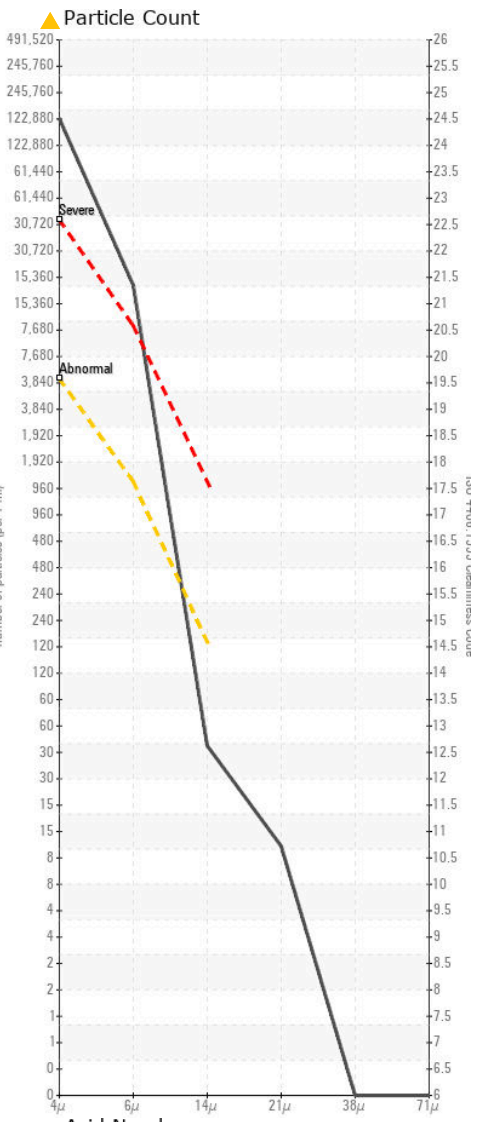
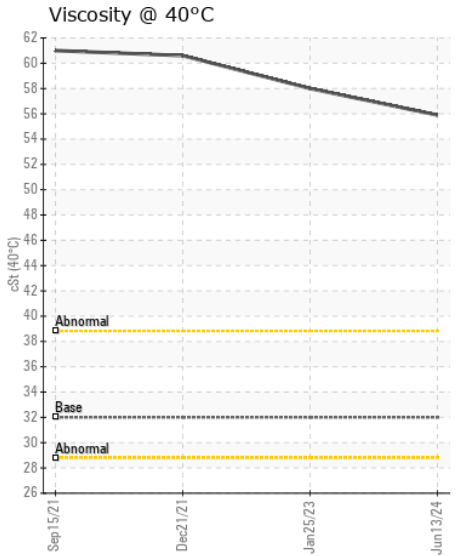
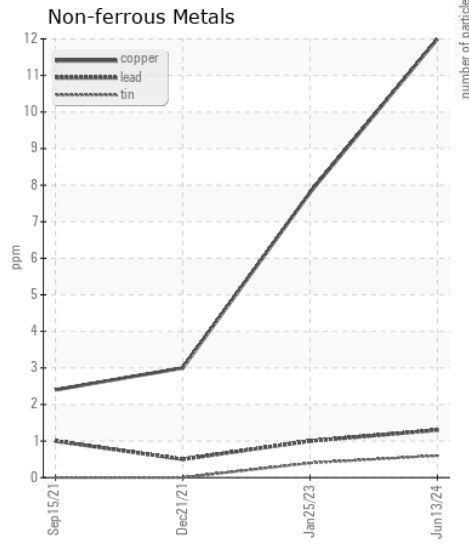
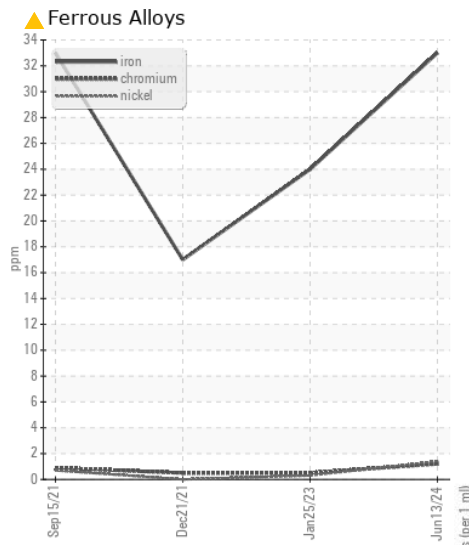
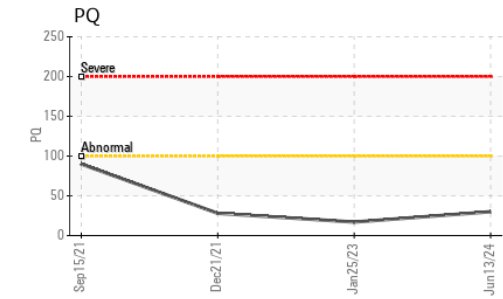
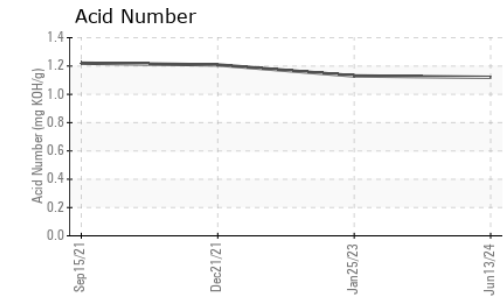
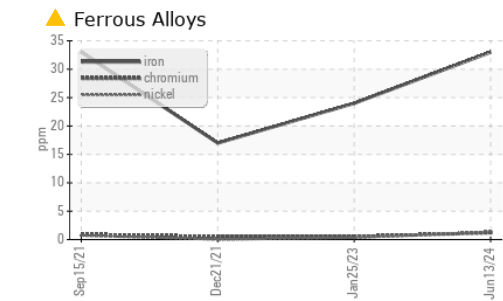
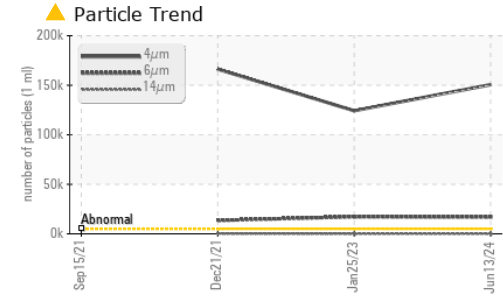
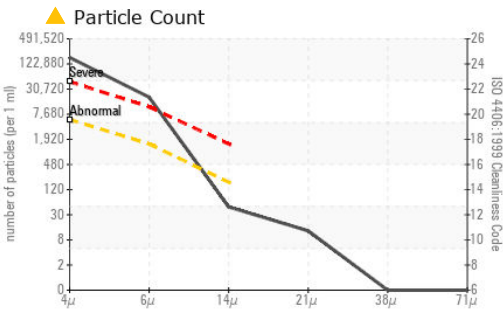
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	11	12	10
Potassium	ppm	ASTM D5185m	>20	6	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 150583	▲ 124236	▲ 166246
Particles >6µm		ASTM D7647	>1300	▲ 16993	▲ 17288	▲ 13478
Particles >14µm		ASTM D7647	>160	41	81	▲ 167
Particles >21µm		ASTM D7647	>40	11	20	30
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/13	▲ 24/21/14	▲ 25/21/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	6	4
Boron	ppm	ASTM D5185m		97	105	100
Barium	ppm	ASTM D5185m		2	<1	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		4	2	2
Magnesium	ppm	ASTM D5185m		25	29	18
Calcium	ppm	ASTM D5185m		3518	3795	3385
Phosphorus	ppm	ASTM D5185m		986	1166	1022
Zinc	ppm	ASTM D5185m		1394	1475	1202
Sulfur	ppm	ASTM D5185m		8332	10075	7040
Acid Number (AN)	mg KOH/g	ASTM D8045		1.12	1.13	1.208
Visc @ 40°C	cSt	ASTM D445	32	55.9	58.0	60.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209065 **Received** : 28 Jun 2024
Lab Number : 06223405 **Tested** : 01 Jul 2024
Unique Number : 11101602 **Diagnosed** : 01 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - DILLWYN
 284 MAIN ST
 DILLWYN, VA
 US 23936

Contact: MIKE FALVELLA
 mike.falvella@jamesriverequipment.com

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)

T: (434)983-1633

F: