



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W00329]

Machine Id
JOHN DEERE 3038E 40026506 (S/N 1LV3038EJJJ122944)

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		JR0209021	JR0164024	JR0110587
Sample Date		Client Info		16 May 2024	20 Feb 2023	21 Oct 2021
Machine Age	hrs	Client Info		399	285	185
Oil Age	hrs	Client Info		399	0	0
Filter Age	hrs	Client Info		399	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	22	28	35
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	<1	1
Aluminum	ppm	ASTM D5185m	>10	3	4	4
Lead	ppm	ASTM D5185m	>10	1	2	2
Copper	ppm	ASTM D5185m	>75	13	28	26
Tin	ppm	ASTM D5185m	>10	1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

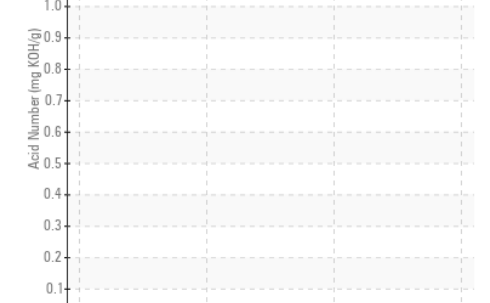
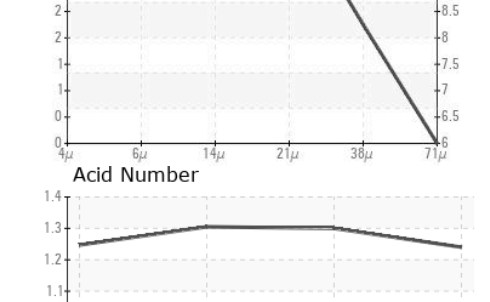
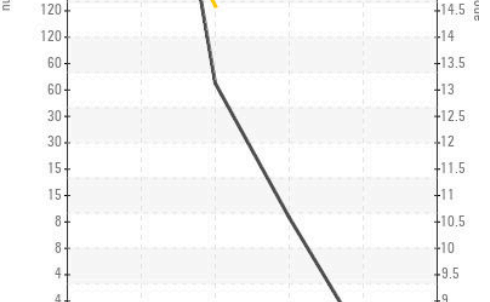
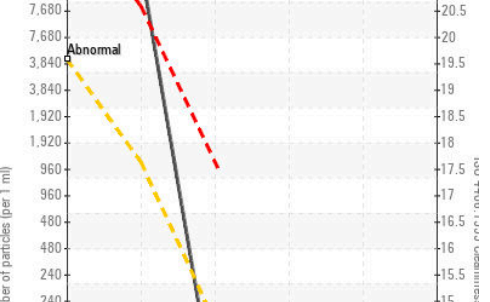
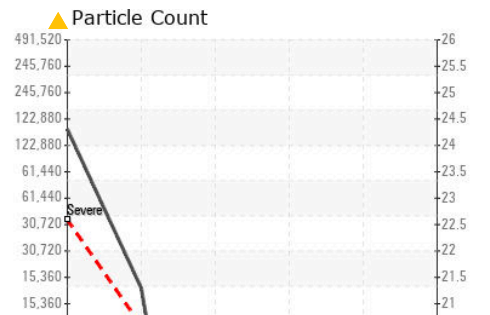
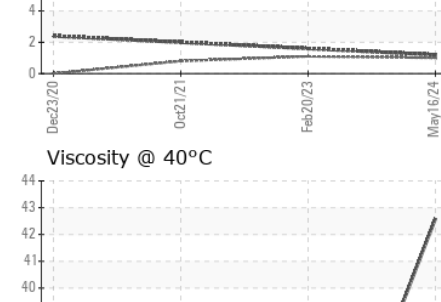
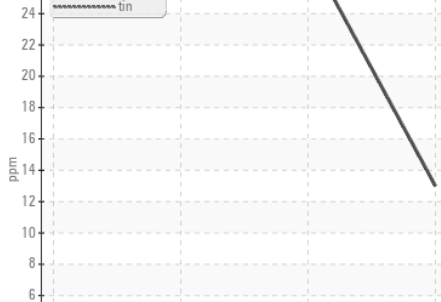
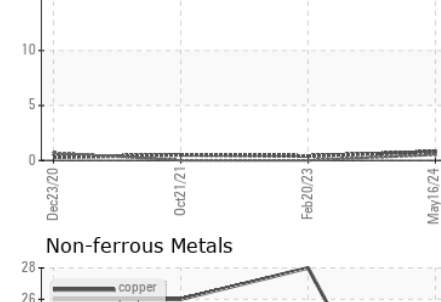
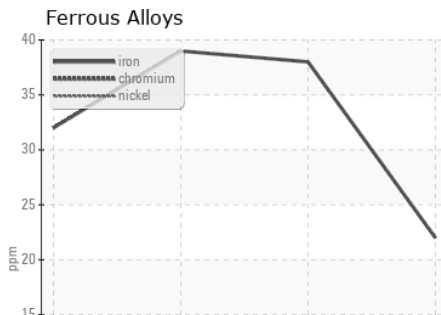
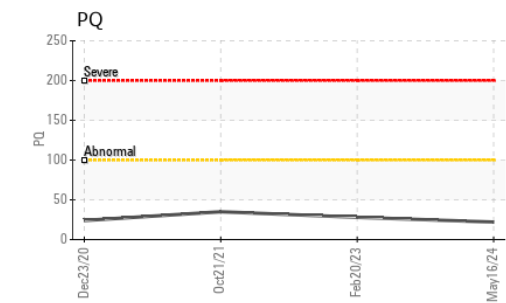
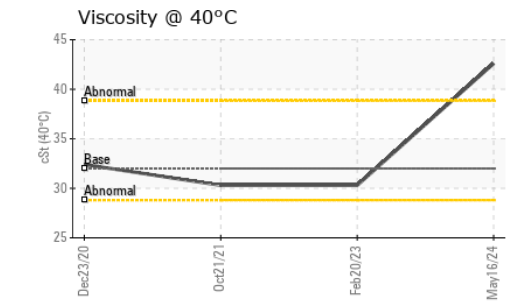
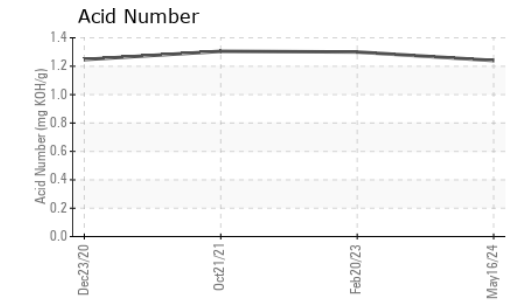
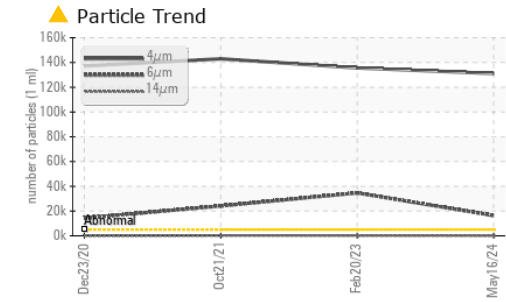
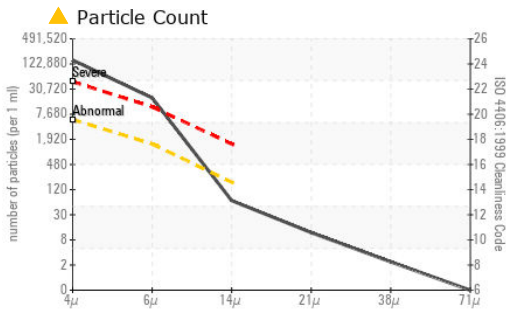
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	7	9	10
Potassium	ppm	ASTM D5185m	>20	3	2	4
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 131051	▲ 135584	▲ 142953
Particles >6µm		ASTM D7647	>1300	▲ 16353	▲ 34675	▲ 24131
Particles >14µm		ASTM D7647	>160	58	138	▲ 169
Particles >21µm		ASTM D7647	>40	10	17	29
Particles >38µm		ASTM D7647	>10	2	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/13	▲ 24/22/14	▲ 24/22/15
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	5	<1
Boron	ppm	ASTM D5185m		1	<1	5
Barium	ppm	ASTM D5185m		1	<1	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		96	78	85
Calcium	ppm	ASTM D5185m		3480	3161	3452
Phosphorus	ppm	ASTM D5185m		951	884	1042
Zinc	ppm	ASTM D5185m		1296	1099	1238
Sulfur	ppm	ASTM D5185m		3713	3662	3007
Acid Number (AN)	mg KOH/g	ASTM D8045		1.24	1.30	1.305
Visc @ 40°C	cSt	ASTM D445	32	42.6	30.3	30.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209021 **Received** : 28 Jun 2024
Lab Number : 06223432 **Tested** : 01 Jul 2024
Unique Number : 11101629 **Diagnosed** : 01 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - DILLWYN
 284 MAIN ST
 DILLWYN, VA
 US 23936

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: MIKE FALVELLA
mike.falvella@jamesriverequipment.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (434)983-1633

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: