



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 320E 1T0320EKAHJ318485
 Component
Right Chain Drive
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207766	JR0185127	JR0160667
Sample Date		Client Info		21 May 2024	26 Sep 2023	03 Mar 2023
Machine Age	hrs	Client Info		8386	7278	6403
Oil Age	hrs	Client Info		1108	875	2151
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		206	134	112
Iron	ppm	ASTM D5185m	>200	58	84	84
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m		2	4	2
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m		0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

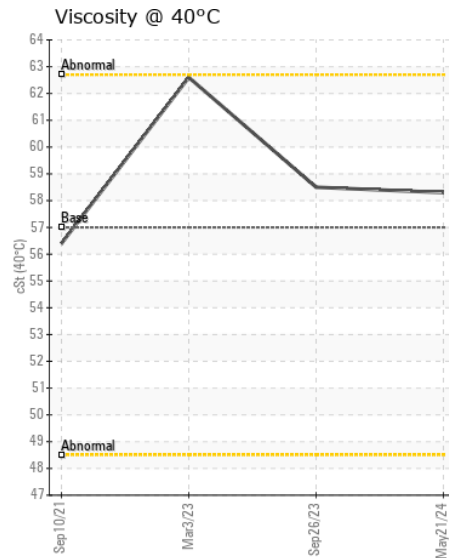
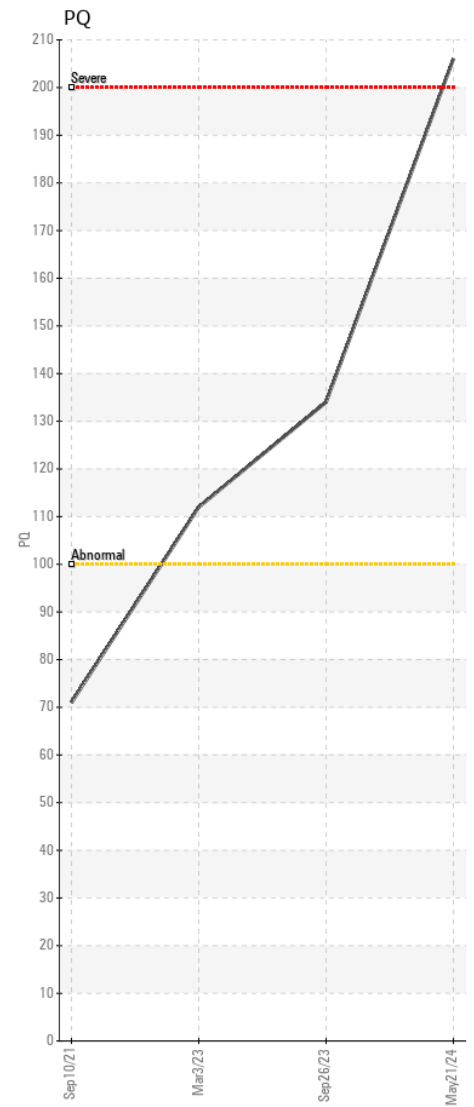
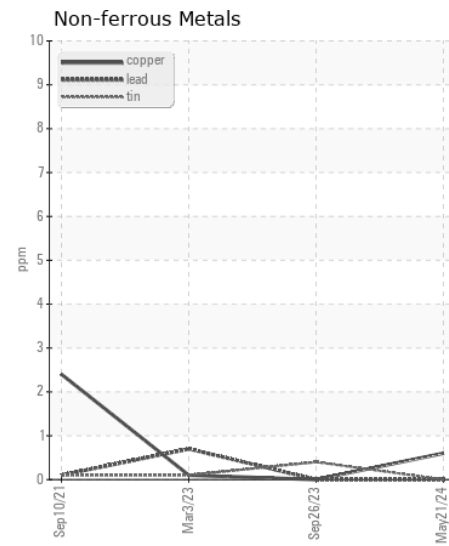
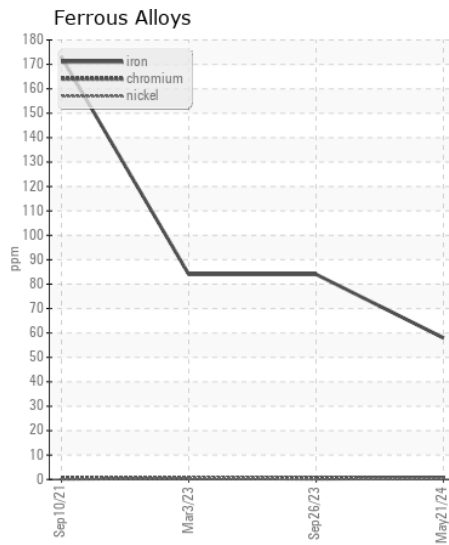
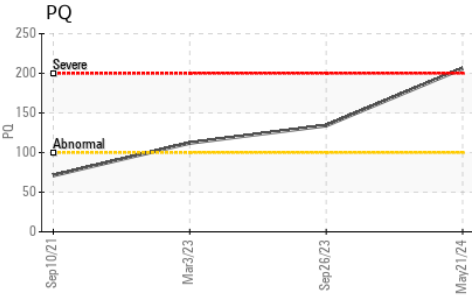
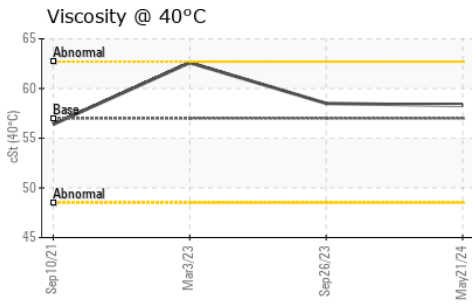
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		10	12	11
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	1	<1
Boron	ppm	ASTM D5185m	6	1	0	● 2
Barium	ppm	ASTM D5185m	0	0	0	4
Molybdenum	ppm	ASTM D5185m	0	<1	<1	3
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m	145	99	110	● 232
Calcium	ppm	ASTM D5185m	3570	3322	3259	● 2776
Phosphorus	ppm	ASTM D5185m	1290	1012	992	● 1073
Zinc	ppm	ASTM D5185m	1640	1216	1253	● 1329
Sulfur	ppm	ASTM D5185m		4447	3793	● 4482
Visc @ 40°C	cSt	ASTM D445	57.0	58.3	58.5	● 62.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0207766

Lab Number : 06192512

Unique Number : 11049264

Test Package : CONST (Additional Tests: PQ)

Received : 28 May 2024

Tested : 30 May 2024

Diagnosed : 30 May 2024 - Sean Felton

JRE - ASHEVILLE

101 BRUCE DRIVE

ASHEVILLE, NC

US 28806

Contact: Randy Warren

randy.warren@jamesriverequipment.com

T: (528)667-0176

F: (828)667-4865

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)