



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W52293]

Machine Id
JOHN DEERE 944X M02-0932 1DW944XAPPLX03758

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211774	JR0200474	JR0200156
Sample Date		Client Info		13 Jun 2024	01 Mar 2024	19 Jan 2024
Machine Age	hrs	Client Info		986	527	311
Oil Age	hrs	Client Info		0	0	311
Filter Age	hrs	Client Info		0	0	311
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	2	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	2
Lead	ppm	ASTM D5185m	>10	<1	0	1
Copper	ppm	ASTM D5185m	>75	7	2	3
Tin	ppm	ASTM D5185m	>10	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

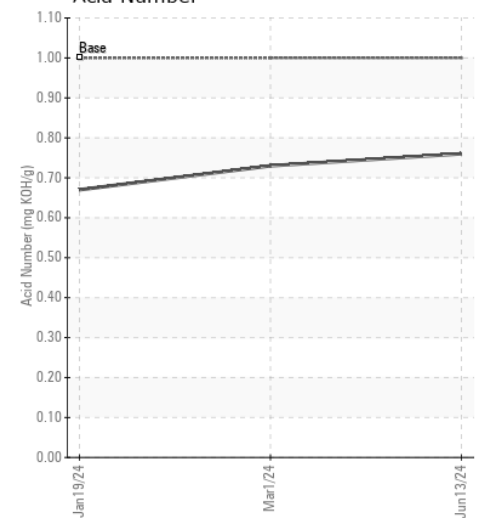
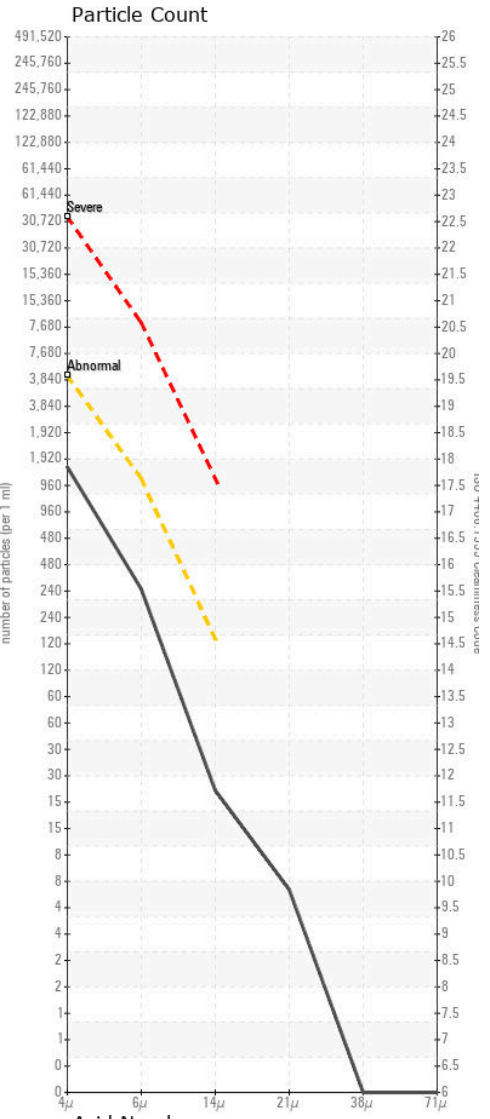
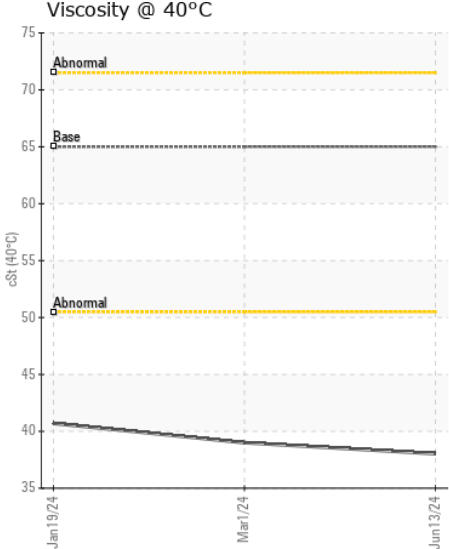
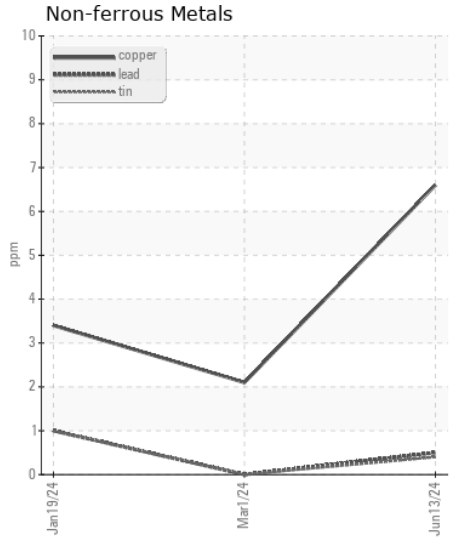
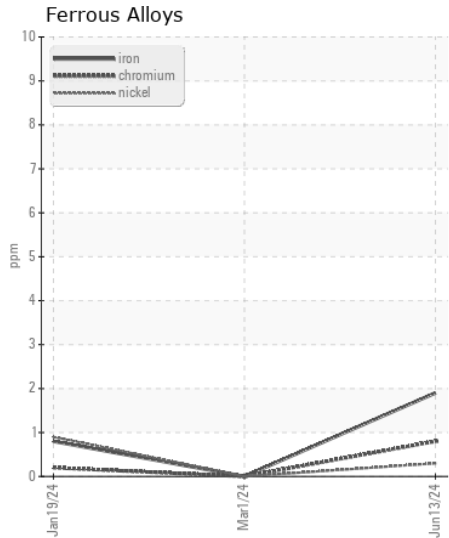
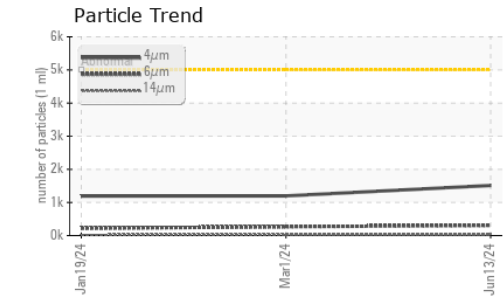
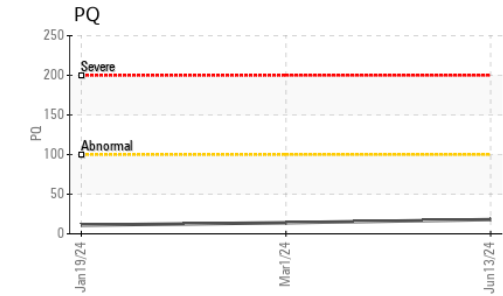
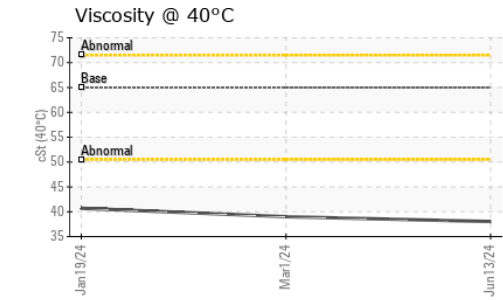
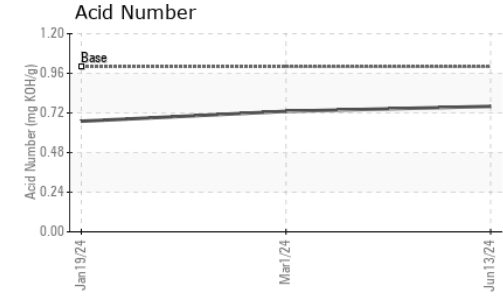
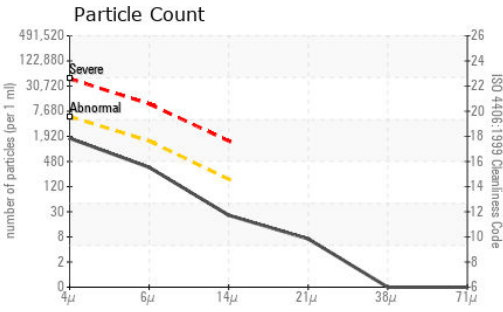
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	12	9	7
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1513	1197	1193
Particles >6µm		ASTM D7647	>1300	306	267	220
Particles >14µm		ASTM D7647	>160	22	22	17
Particles >21µm		ASTM D7647	>40	6	5	5
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/12	17/15/12	17/15/11
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	>0.1	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		0	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Calcium	ppm	ASTM D5185m	87	76	73	77
Phosphorus	ppm	ASTM D5185m	727	540	539	569
Zinc	ppm	ASTM D5185m	900	821	754	896
Sulfur	ppm	ASTM D5185m	1500	1714	1431	1595
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.76	0.73	0.67
Visc @ 40°C	cSt	ASTM D445	65	38.03	39.0	40.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211774 **Received** : 18 Jun 2024
Lab Number : 06213386 **Tested** : 24 Jun 2024
Unique Number : 11086250 **Diagnosed** : 24 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

LUCK STONE - MILFORD
 19380 RICHMOND TURNPIKE
 MILFORD, VA
 US 22514
 Contact: BRYAN MORRIS
 bmorris@luckstone.com
 T: (804)400-3630
 F: x:

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)