



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W8765]
 Machine Id
JOHN DEERE 824K 1DW824KXPHF679619
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (44 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W8765)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197204	JR0008827	JR0183065
Sample Date		Client Info		16 Apr 2024	22 Jan 2024	20 Oct 2023
Machine Age	hrs	Client Info		13976	13495	12978
Oil Age	hrs	Client Info		12233	12551	978
Filter Age	hrs	Client Info		0	0	978
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	15	13	11
Iron	ppm	ASTM D5185m	>71	15	12	9
Chromium	ppm	ASTM D5185m	>11	7	4	2
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	<1	<1	2
Lead	ppm	ASTM D5185m	>13	<1	0	<1
Copper	ppm	ASTM D5185m	>21	2	1	1
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

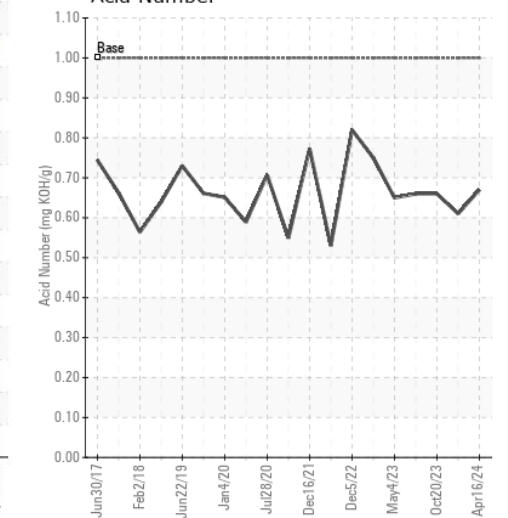
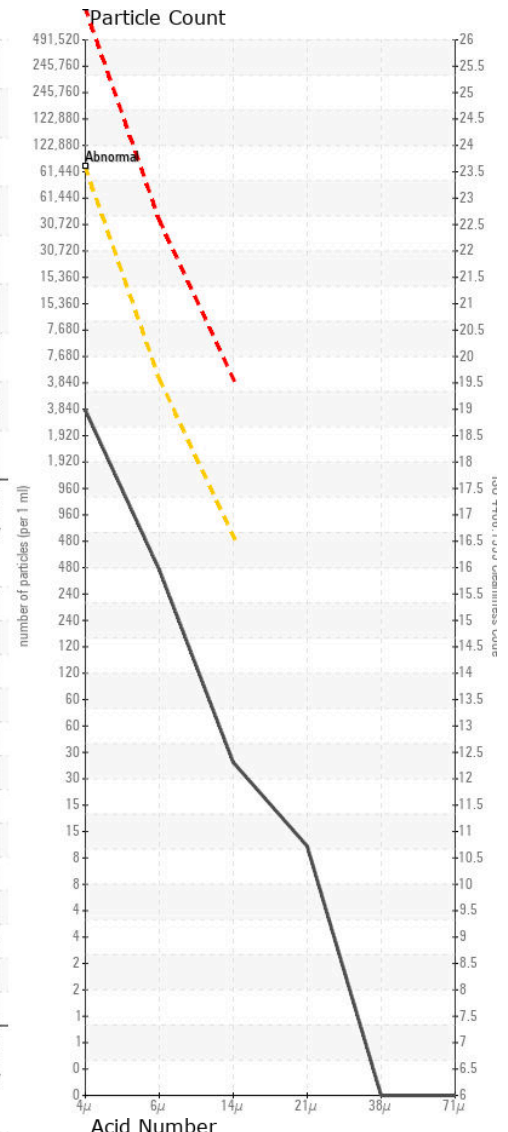
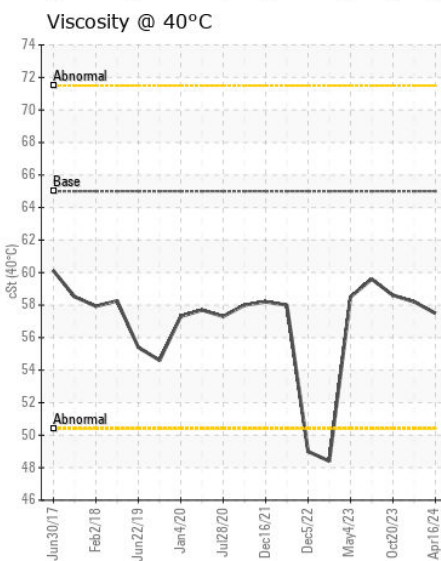
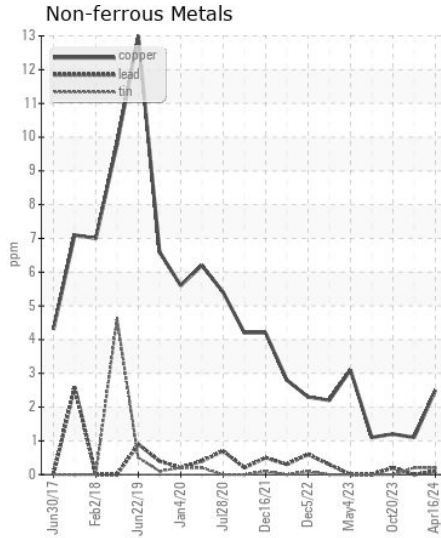
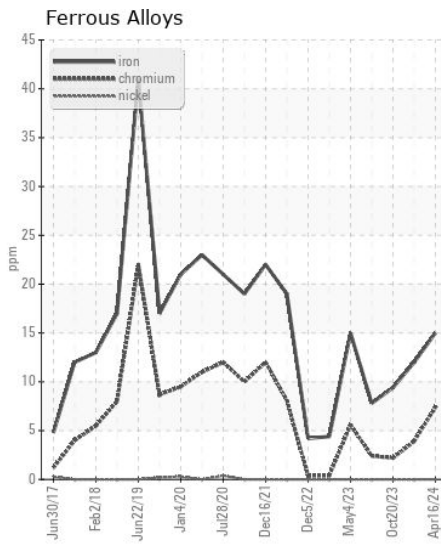
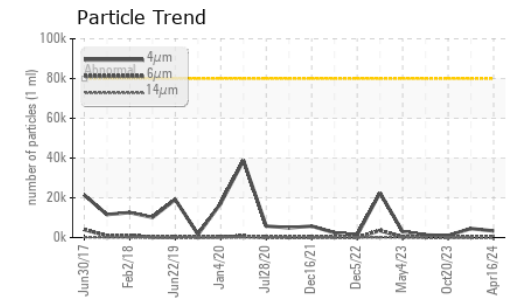
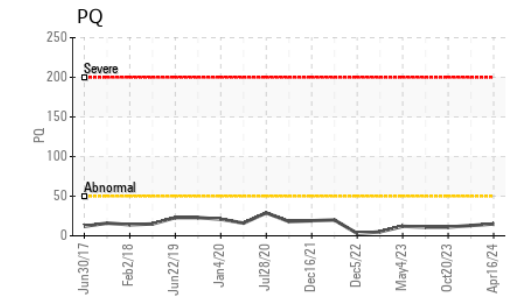
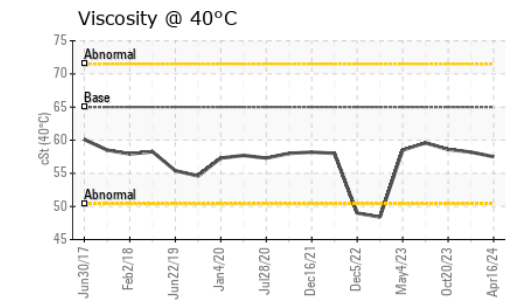
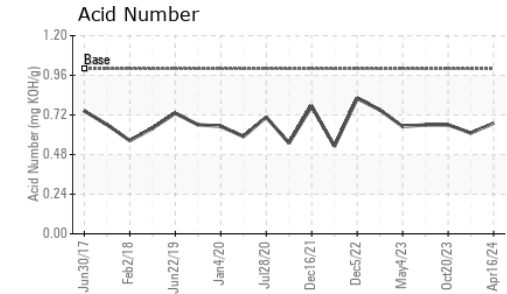
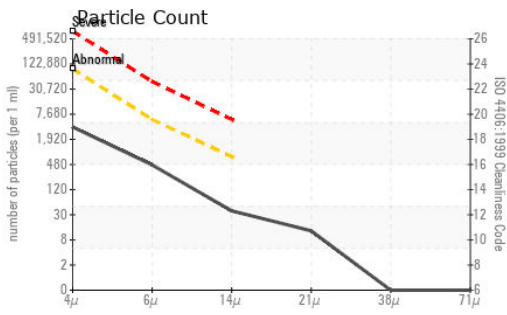
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	4	3	2
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	3317	4544	1017
Particles >6µm		ASTM D7647	>5000	411	167	129
Particles >14µm		ASTM D7647	>640	33	13	16
Particles >21µm		ASTM D7647	>160	11	4	5
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/16/12	19/15/11	17/14/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.075	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	>21	4	3	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	1
Calcium	ppm	ASTM D5185m	87	75	78	92
Phosphorus	ppm	ASTM D5185m	727	687	671	683
Zinc	ppm	ASTM D5185m	900	841	758	869
Sulfur	ppm	ASTM D5185m	1500	1897	1593	1701
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.61	0.66
Visc @ 40°C	cSt	ASTM D445	65	57.5	58.2	58.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197204 **Received** : 19 Apr 2024
Lab Number : 06154256 **Tested** : 23 Apr 2024
Unique Number : 10989679 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com
 T:
 F:

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)