



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W7325]
 Machine Id
JOHN DEERE 824K 1DW824KXVJF687635
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W7325)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0141210	JR0140675	JR0098030
Sample Date		Client Info		23 Jun 2023	27 Jan 2023	23 Sep 2022
Machine Age	hrs	Client Info		8845	8004	7501
Oil Age	hrs	Client Info		841	4689	5123
Filter Age	hrs	Client Info		841	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	16	14	8
Iron	ppm	ASTM D5185m	>71	17	12	8
Chromium	ppm	ASTM D5185m	>11	7	4	2
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	3	2	2
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>21	3	2	2
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

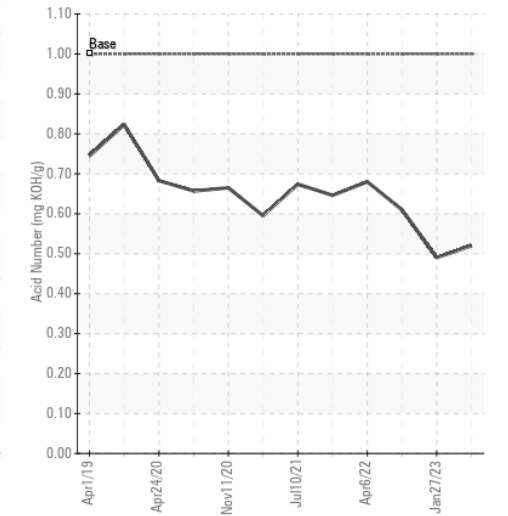
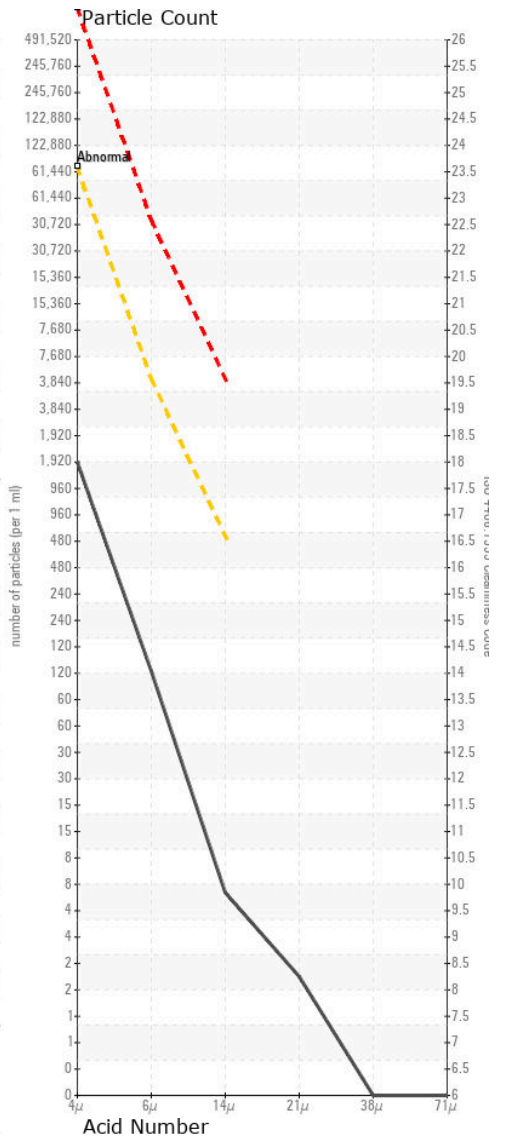
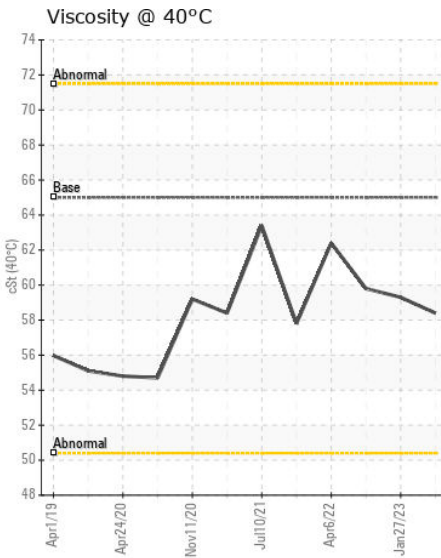
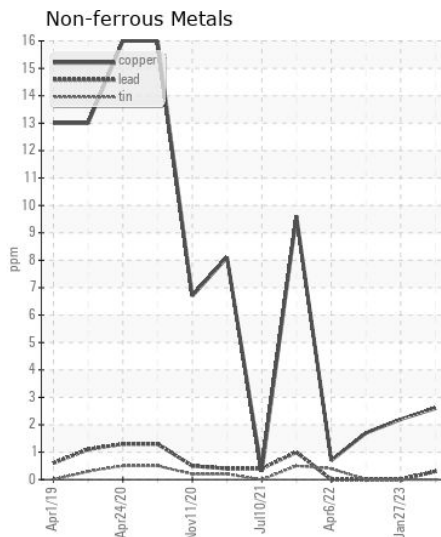
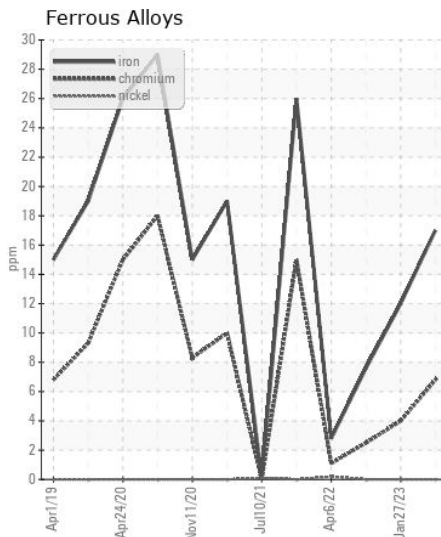
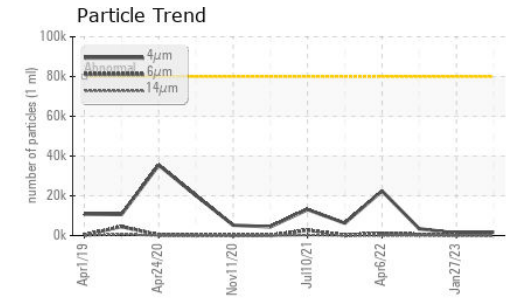
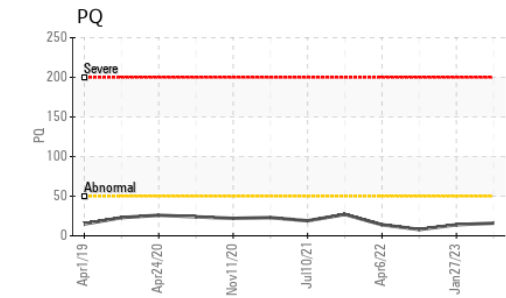
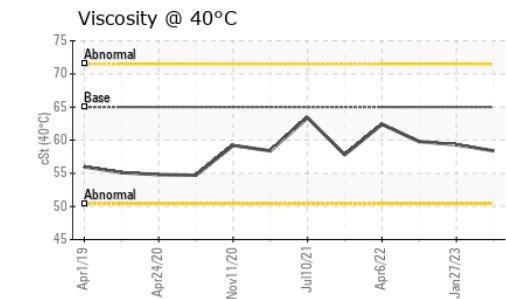
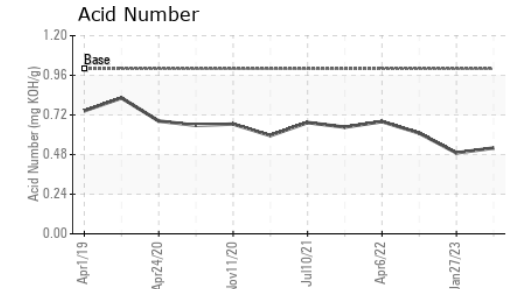
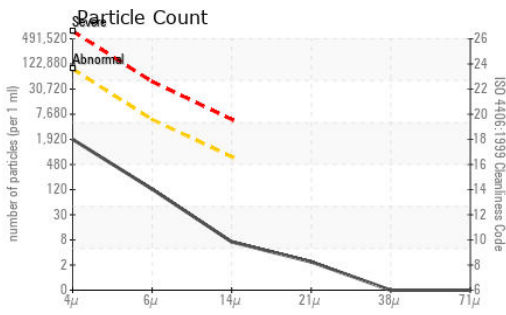
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	7	3	2
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	1682	1202	3427
Particles >6µm		ASTM D7647	>5000	109	209	530
Particles >14µm		ASTM D7647	>640	6	14	23
Particles >21µm		ASTM D7647	>160	2	5	5
Particles >38µm		ASTM D7647	>40	0	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/14/10	17/15/11	19/16/12
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	>0.075	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	3	2	3
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		<1	2	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	9	<1
Calcium	ppm	ASTM D5185m	87	76	91	85
Phosphorus	ppm	ASTM D5185m	727	603	599	591
Zinc	ppm	ASTM D5185m	900	797	795	763
Sulfur	ppm	ASTM D5185m	1500	1691	1547	1770
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.52	0.49	0.61
Visc @ 40°C	cSt	ASTM D445	65	58.4	59.3	59.8



Certificate L2367

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

Sample No. : JR0141210

Lab Number : 05885063

Unique Number : 10535546

Test Package : MOBCE (Additional Tests: PQ)

Received : 27 Jun 2023

Tested : 28 Jun 2023

Diagnosed : 30 Jun 2023 - Don Baldrige

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.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)

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F: