



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W7325]
 Machine Id
JOHN DEERE 824K 1DW824KXVJF687635
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (8 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		JR0141167	JR0140676	JR0098454
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	6574	7008
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		13	14	11
Iron	ppm	ASTM D5185m	>1501	25	18	14
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	0	<1	1
Lead	ppm	ASTM D5185m	>51	4	12	<1
Copper	ppm	ASTM D5185m	>101	20	13	4
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

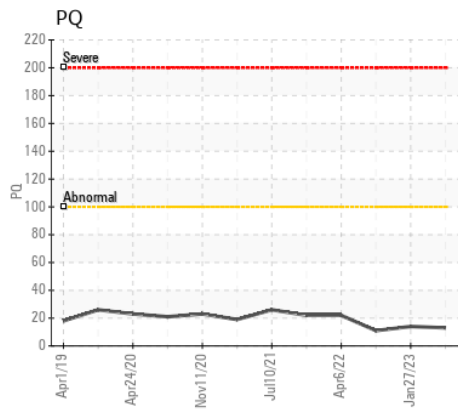
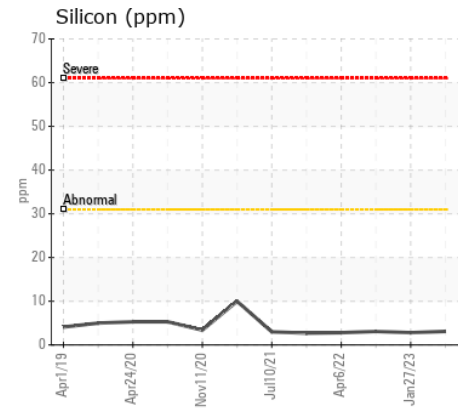
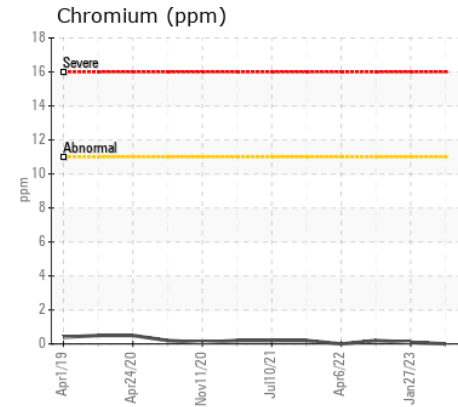
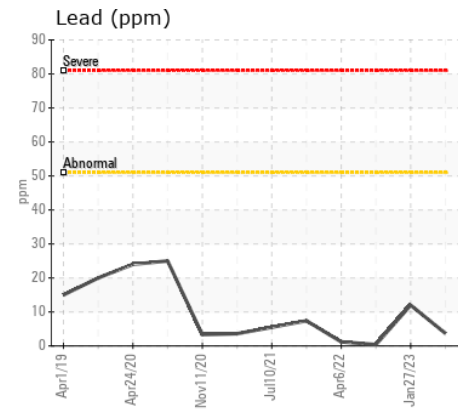
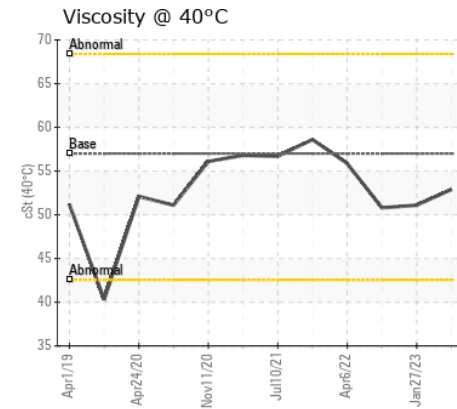
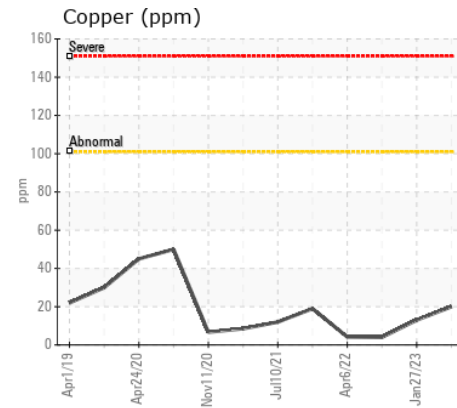
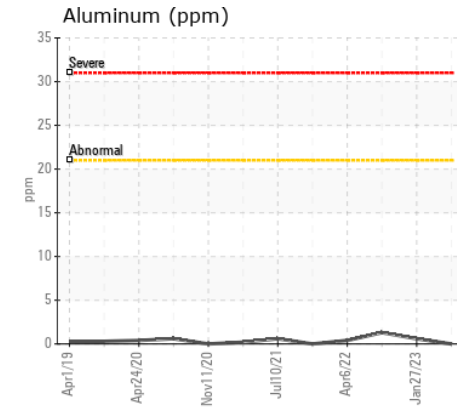
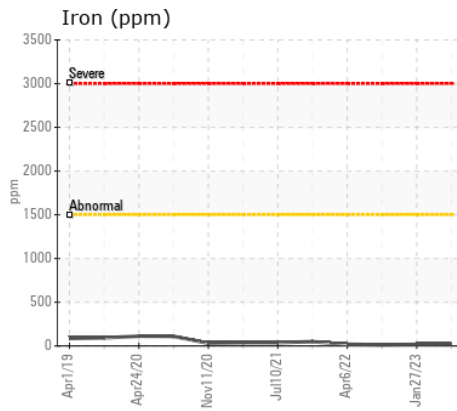
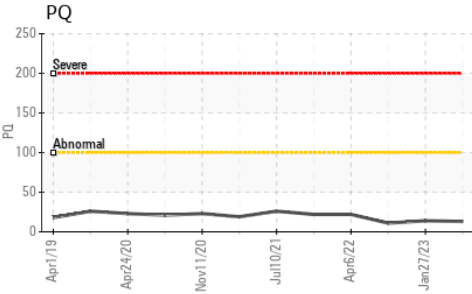
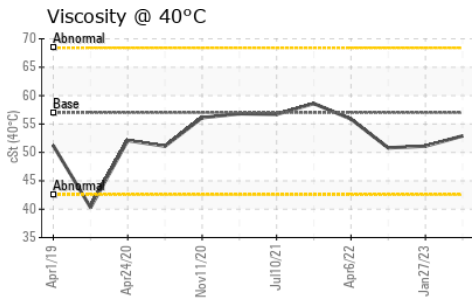
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	3	3	3
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<1	2	4
Boron	ppm	ASTM D5185m	6	8	10	<1
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	0	3	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	81	84	96
Calcium	ppm	ASTM D5185m	3570	3489	3340	3504
Phosphorus	ppm	ASTM D5185m	1290	1102	955	1012
Zinc	ppm	ASTM D5185m	1640	1273	1176	1217
Sulfur	ppm	ASTM D5185m		3870	3911	4219
Visc @ 40°C	cSt	ASTM D445	57.0	52.9	51.1	50.8



Certificate L2367

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

Sample No. : JR0141167

Lab Number : 05885241

Unique Number : 10535724

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; panastasio@wearcheck.com

T:

F:

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)