



Area

[W8904]

Machine Id

JOHN DEERE 624K C137436 (S/N 1DW624KZJCD642523)

Component

Rear Differential

Fluid

JOHN DEERE HY-GARD HYD/TRANS (5 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: W8904)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196937	JR0183152	JR0141195
Sample Date		Client Info		20 Jun 2024	04 Dec 2023	13 May 2023
Machine Age	hrs	Client Info		14187	13166	11693
Oil Age	hrs	Client Info		14187	13166	13693
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		79	238	257
Iron	ppm	ASTM D5185m	>500	359	144	137
Chromium	ppm	ASTM D5185m	>10	4	<1	<1
Nickel	ppm	ASTM D5185m	>10	3	<1	<1
Titanium	ppm	ASTM D5185m		2	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	9	2	3
Lead	ppm	ASTM D5185m	>25	3	2	1
Copper	ppm	ASTM D5185m	>100	23	19	15
Tin	ppm	ASTM D5185m	>10	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	HEAVY	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

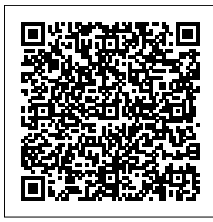
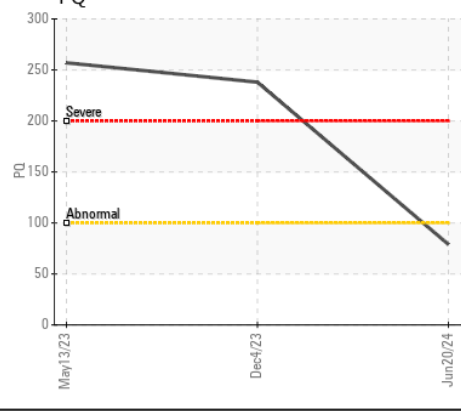
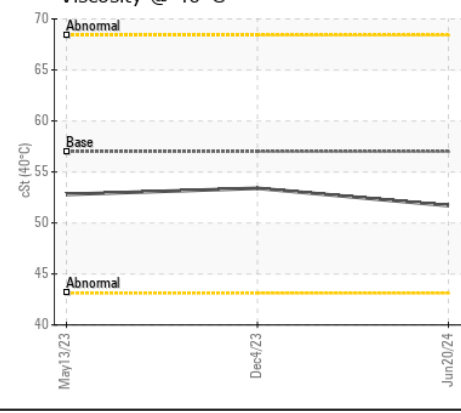
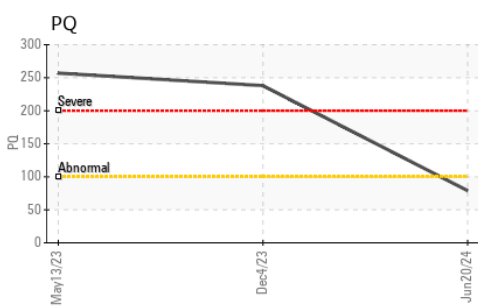
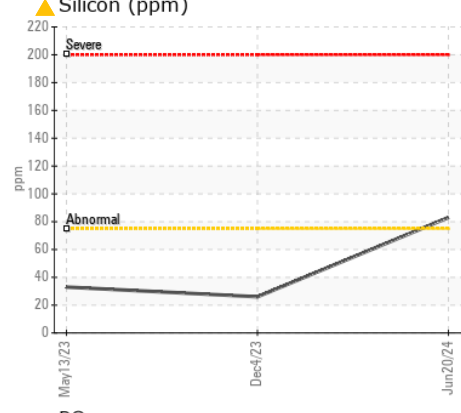
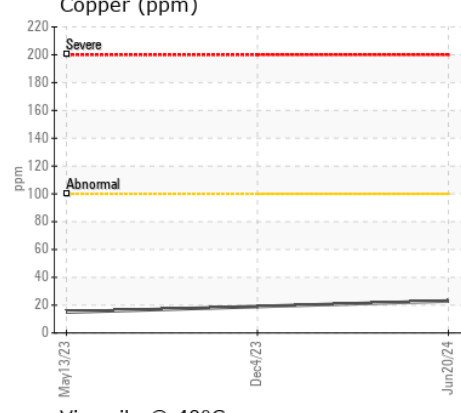
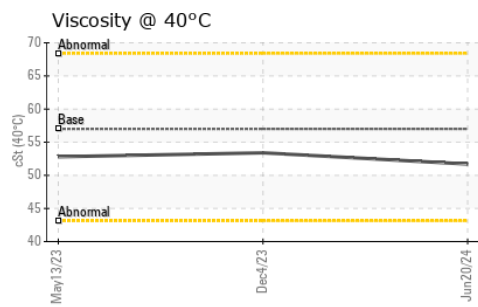
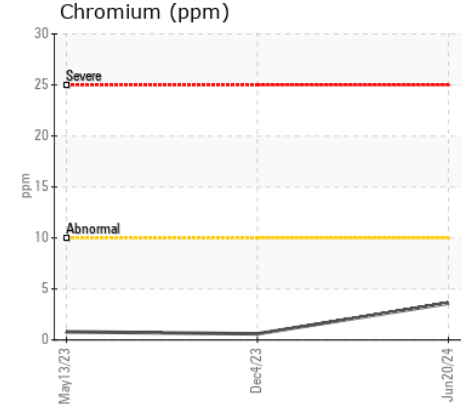
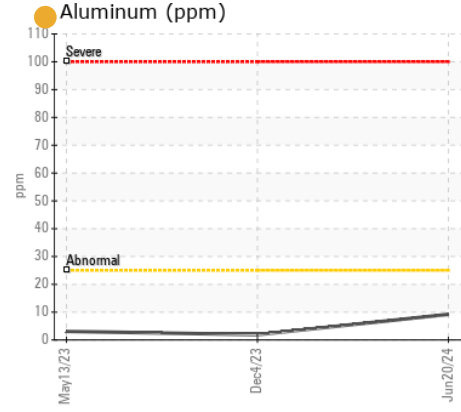
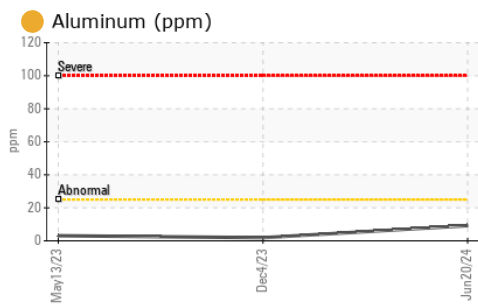
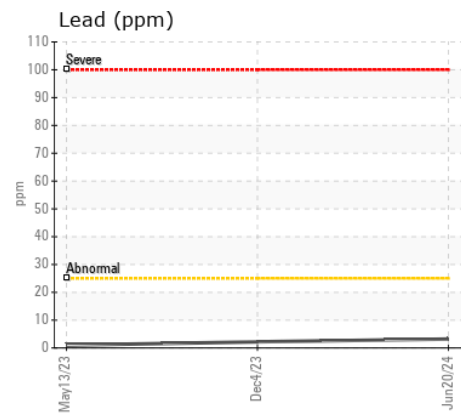
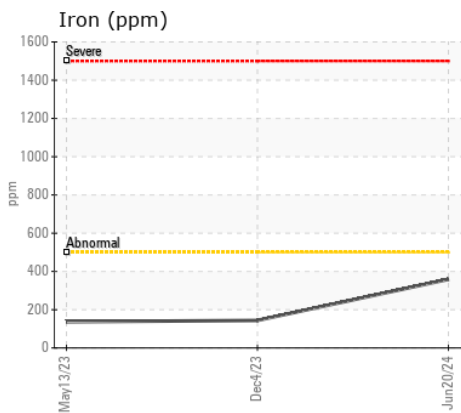
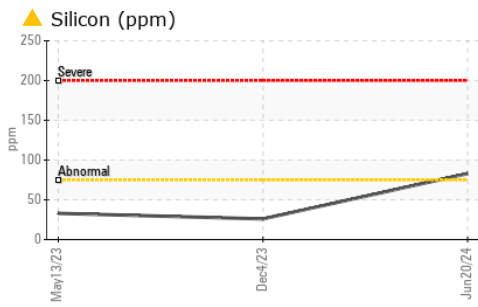
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	83	26	33
Potassium	ppm	ASTM D5185m	>20	4	0	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	>.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		4	5	6
Boron	ppm	ASTM D5185m	6	3	2	5
Barium	ppm	ASTM D5185m	0	2	0	<1
Molybdenum	ppm	ASTM D5185m	0	2	<1	1
Manganese	ppm	ASTM D5185m		4	2	2
Magnesium	ppm	ASTM D5185m	145	97	95	103
Calcium	ppm	ASTM D5185m	3570	3510	3523	3532
Phosphorus	ppm	ASTM D5185m	1290	1067	1030	1043
Zinc	ppm	ASTM D5185m	1640	1238	1201	1276
Sulfur	ppm	ASTM D5185m		4414	3483	4532
Visc @ 40°C	cSt	ASTM D445	57.0	51.7	53.4	52.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196937 **Received** : 24 Jun 2024
Lab Number : 06218512 **Tested** : 25 Jun 2024
Unique Number : 11096709 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348

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)

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