



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 724K 1DW724KZLGF674537

Component
Front Differential

Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203497	JR0143712	JR0108879
Sample Date		Client Info		08 Feb 2024	15 Sep 2022	29 Nov 2021
Machine Age	hrs	Client Info		6898	6603	5609
Oil Age	hrs	Client Info		5904	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Not Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		12	23	20
Iron	ppm	ASTM D5185m	>500	29	95	61
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>25	▲ 32	▲ 157	▲ 93
Copper	ppm	ASTM D5185m	>100	10	43	25
Tin	ppm	ASTM D5185m	>10	<1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

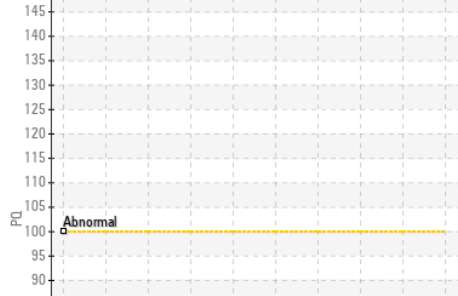
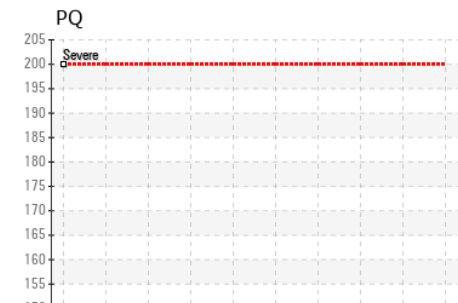
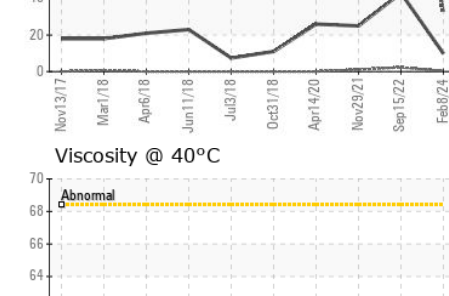
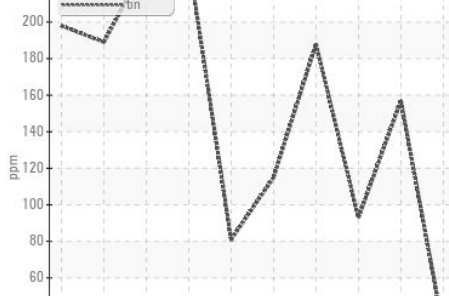
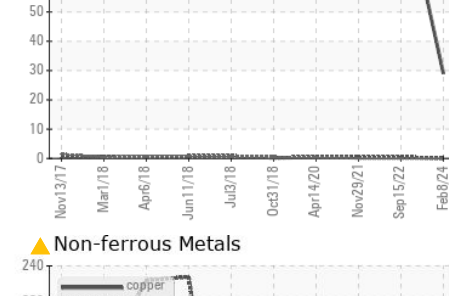
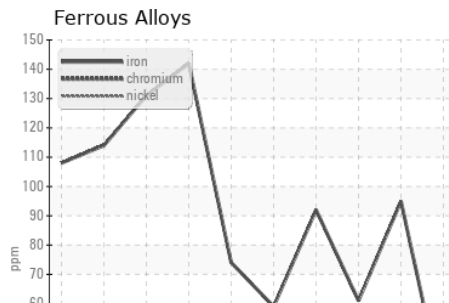
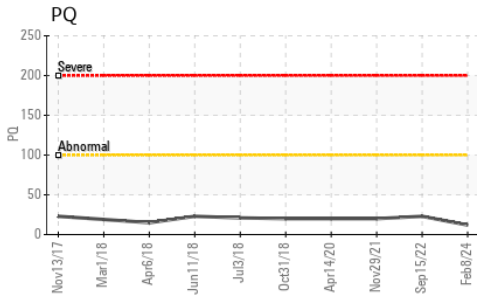
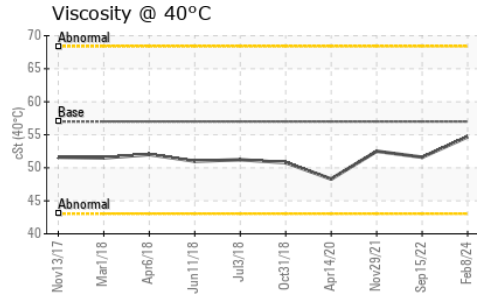
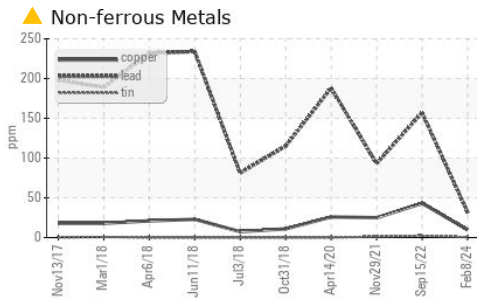
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	4	7	4
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water		WC Method	>.2	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	>.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		0	6	5
Boron	ppm	ASTM D5185m	6	0	3	7
Barium	ppm	ASTM D5185m	0	12	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	5	6
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	145	97	95	100
Calcium	ppm	ASTM D5185m	3570	3412	3437	3680
Phosphorus	ppm	ASTM D5185m	1290	1080	997	1076
Zinc	ppm	ASTM D5185m	1640	1246	1203	1156
Sulfur	ppm	ASTM D5185m		4039	4294	3162
Visc @ 40°C	cSt	ASTM D445	57.0	54.7	51.6	52.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203497 **Received** : 14 Feb 2024
Lab Number : 06089081 **Tested** : 15 Feb 2024
Unique Number : 10876526 **Diagnosed** : 15 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)