



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 524L 1DW524LTJKF701627

Component
Rear Differential

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0202292	JR0152787	JR0133294
Sample Date		Client Info		28 Feb 2024	17 Nov 2022	12 Jul 2022
Machine Age	hrs	Client Info		5232	5232	2107
Oil Age	hrs	Client Info		2107	3125	2107
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		10	69	73
Iron	ppm	ASTM D5185m	>500	10	120	325
Chromium	ppm	ASTM D5185m	>10	0	1	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	3
Lead	ppm	ASTM D5185m	>25	<1	2	14
Copper	ppm	ASTM D5185m	>100	7	8	46
Tin	ppm	ASTM D5185m	>10	<1	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

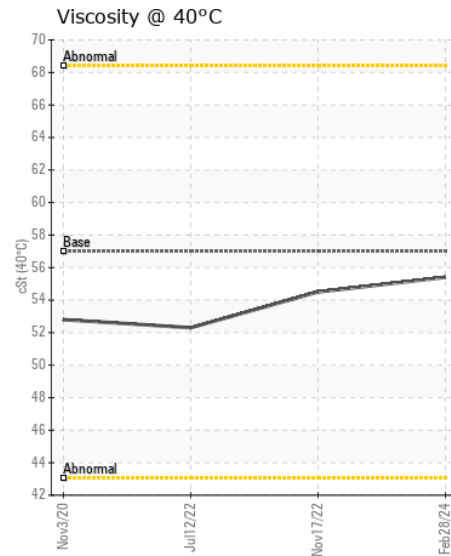
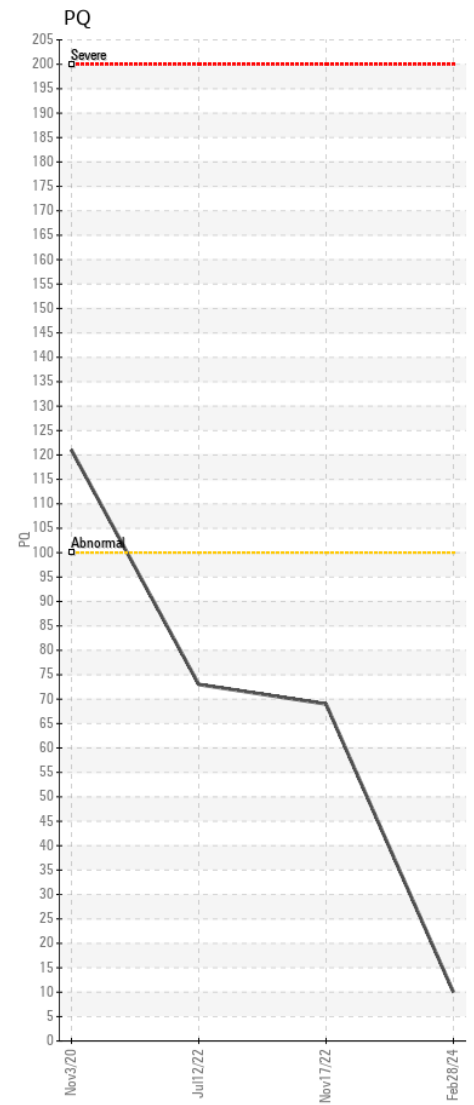
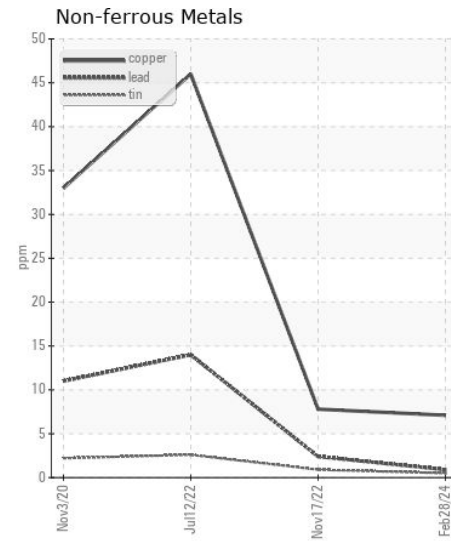
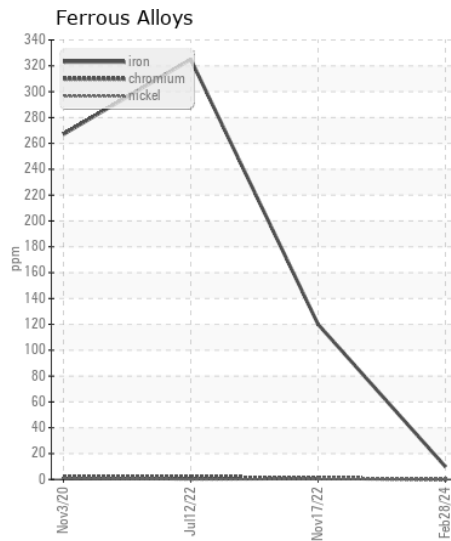
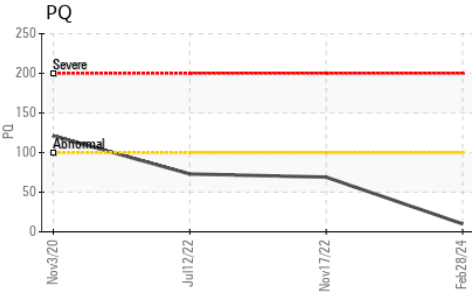
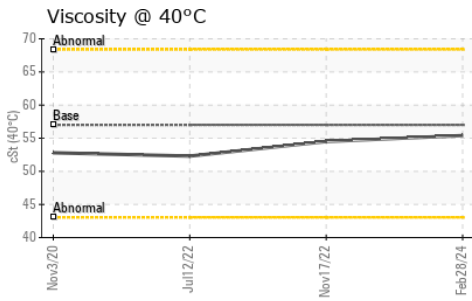
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	12	11	20
Potassium	ppm	ASTM D5185m	>20	<1	0	6
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.

Sodium	ppm	ASTM D5185m		2	2	6
Boron	ppm	ASTM D5185m	6	2	5	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	2	<1
Manganese	ppm	ASTM D5185m		<1	2	7
Magnesium	ppm	ASTM D5185m	145	106	105	94
Calcium	ppm	ASTM D5185m	3570	3766	3243	3533
Phosphorus	ppm	ASTM D5185m	1290	1057	934	1049
Zinc	ppm	ASTM D5185m	1640	1412	1180	1256
Sulfur	ppm	ASTM D5185m		3520	3741	4872
Visc @ 40°C	cSt	ASTM D445	57.0	55.4	54.5	52.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0202292 **Received** : 29 Feb 2024
Lab Number : 06104549 **Tested** : 01 Mar 2024
Unique Number : 10902779 **Diagnosed** : 04 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529
 Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com
 T: (919)614-2260
 F: (919)779-5432

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)