



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[16W15974]
 Machine Id
JOHN DEERE 524P 1DW524PAVNLZ15874
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W15974)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206862	JR0196555	JR0185447
Sample Date		Client Info		13 Apr 2024	27 Jan 2024	21 Oct 2023
Machine Age	hrs	Client Info		2884	2490	2034
Oil Age	hrs	Client Info		850	456	1375
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		49	40	14
Iron	ppm	ASTM D5185m	>500	107	109	259
Chromium	ppm	ASTM D5185m	>10	1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>25	6	2	12
Copper	ppm	ASTM D5185m	>100	16	13	30
Tin	ppm	ASTM D5185m	>10	0	<1	4
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

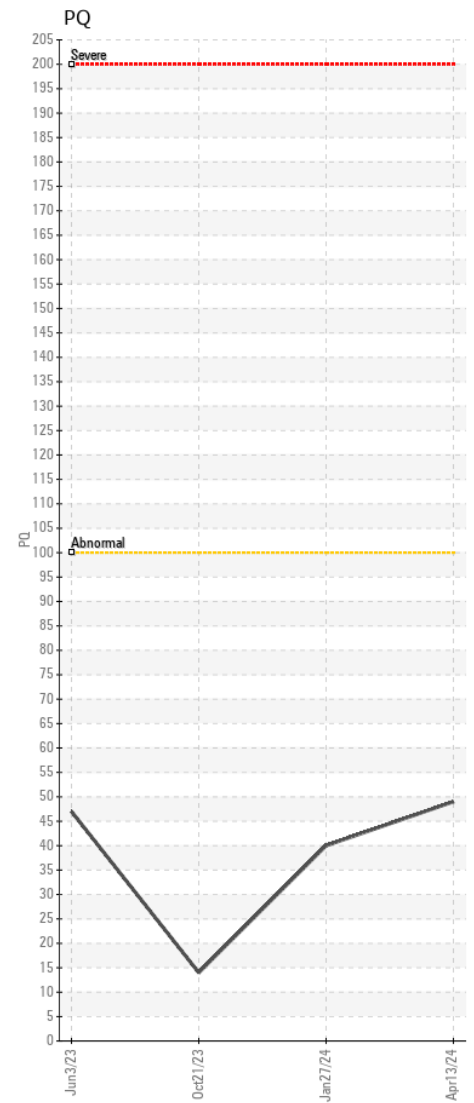
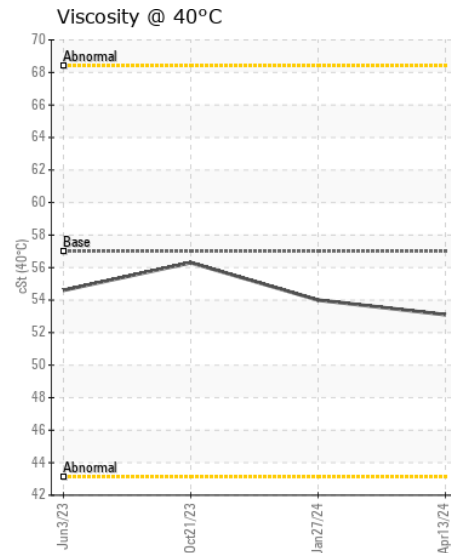
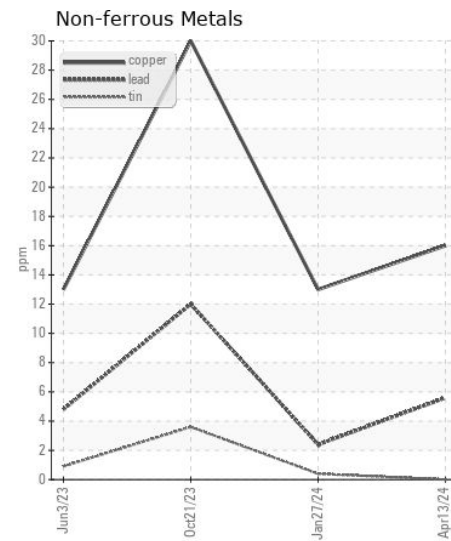
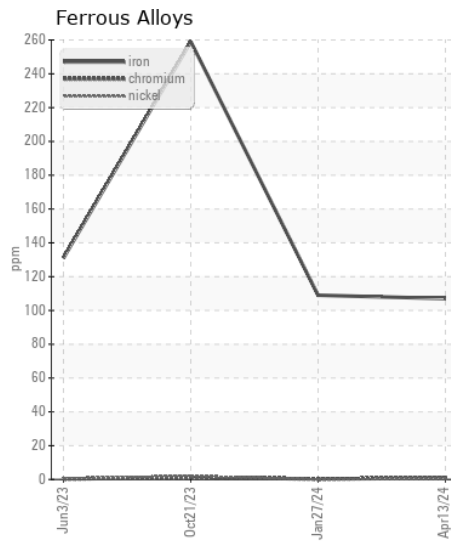
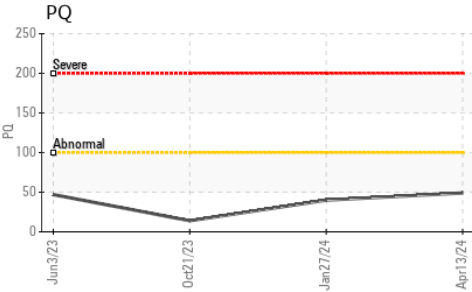
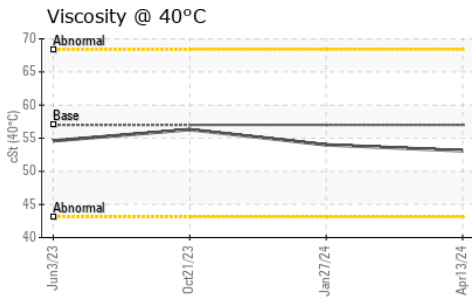
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	16	14
Potassium	ppm	ASTM D5185m	>20	0	3	<1
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		3	0	3
Boron	ppm	ASTM D5185m	6	0	1	1
Barium	ppm	ASTM D5185m	0	6	1	0
Molybdenum	ppm	ASTM D5185m	0	1	0	0
Manganese	ppm	ASTM D5185m		2	1	7
Magnesium	ppm	ASTM D5185m	145	81	103	73
Calcium	ppm	ASTM D5185m	3570	3458	3365	3164
Phosphorus	ppm	ASTM D5185m	1290	952	1038	1053
Zinc	ppm	ASTM D5185m	1640	1068	1340	1229
Sulfur	ppm	ASTM D5185m		3849	4248	3524
Visc @ 40°C	cSt	ASTM D445	57.0	53.1	54.0	56.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206862 **Received** : 16 Apr 2024
Lab Number : 06150656 **Tested** : 17 Apr 2024
Unique Number : 10980734 **Diagnosed** : 18 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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