



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544 P 1DW544PAAMLZ12726
 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		JR0194394	JR0158188	JR0133435
Sample Date		Client Info		11 Jan 2024	11 May 2023	29 Jun 2022
Machine Age	hrs	Client Info		2582	1969	884
Oil Age	hrs	Client Info		0	0	884
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		115	127	112
Iron	ppm	ASTM D5185m	>500	398	315	287
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	3	1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	3
Lead	ppm	ASTM D5185m	>25	20	18	13
Copper	ppm	ASTM D5185m	>100	38	38	28
Tin	ppm	ASTM D5185m	>10	2	2	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

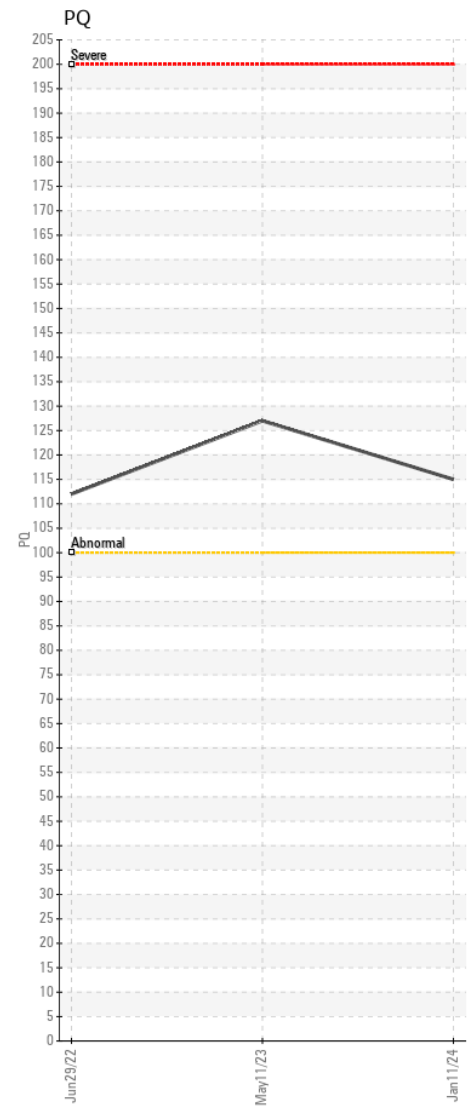
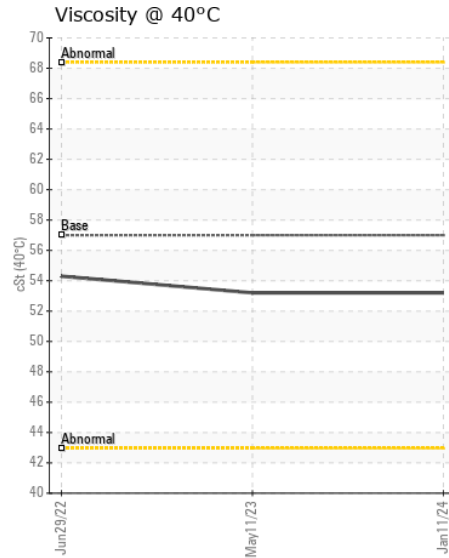
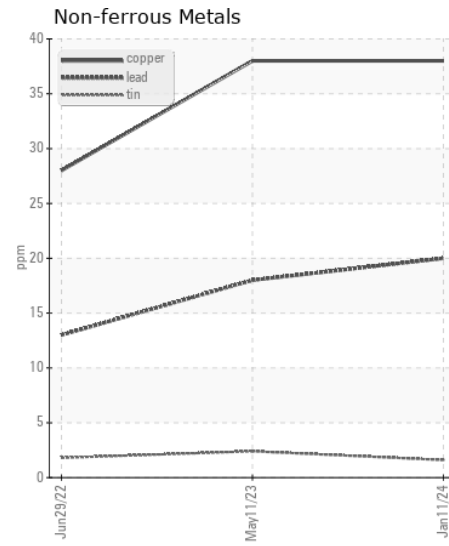
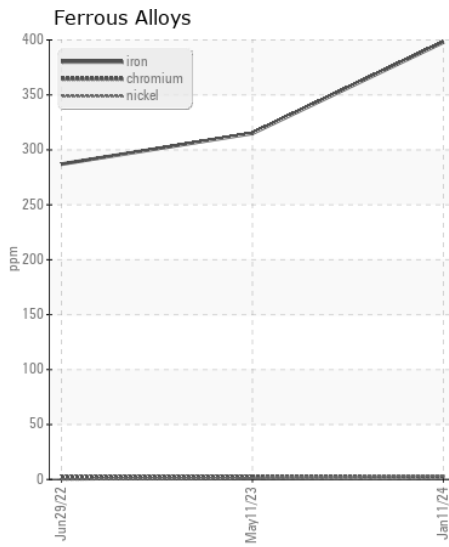
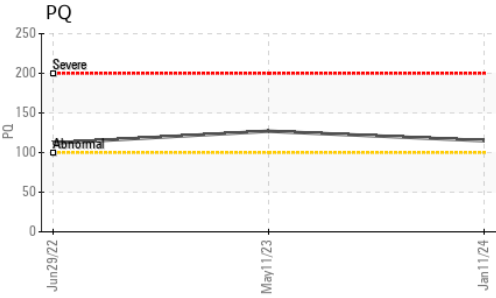
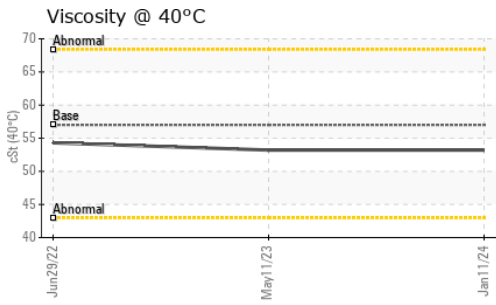
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	25	22	22
Potassium	ppm	ASTM D5185m	>20	4	2	3
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	6	4
Boron	ppm	ASTM D5185m	6	3	4	5
Barium	ppm	ASTM D5185m	0	7	3	6
Molybdenum	ppm	ASTM D5185m	0	1	<1	<1
Manganese	ppm	ASTM D5185m		10	12	11
Magnesium	ppm	ASTM D5185m	145	96	98	103
Calcium	ppm	ASTM D5185m	3570	3383	3355	3703
Phosphorus	ppm	ASTM D5185m	1290	1056	1020	1103
Zinc	ppm	ASTM D5185m	1640	1242	1246	1328
Sulfur	ppm	ASTM D5185m		4437	4434	4385
Visc @ 40°C	cSt	ASTM D445	57.0	53.2	53.2	54.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194394 **Recieved** : 12 Jan 2024
Lab Number : 06059578 **Diagnosed** : 15 Jan 2024
Unique Number : 10830960 **Diagnostician** : Wes Davis
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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