



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544P 1DW544PAKMLZ12381
 Component
Rear Differential
 Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213039	JR0197750	JR0186389
Sample Date		Client Info		07 May 2024	15 Dec 2023	25 Aug 2023
Machine Age	hrs	Client Info		2966	2504	2016
Oil Age	hrs	Client Info		2478	488	2016
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	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		94	15	13
Iron	ppm	ASTM D5185m	>500	219	4	5
Chromium	ppm	ASTM D5185m	>10	2	0	0
Nickel	ppm	ASTM D5185m	>10	2	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>25	10	0	<1
Copper	ppm	ASTM D5185m	>100	20	<1	1
Tin	ppm	ASTM D5185m	>10	2	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

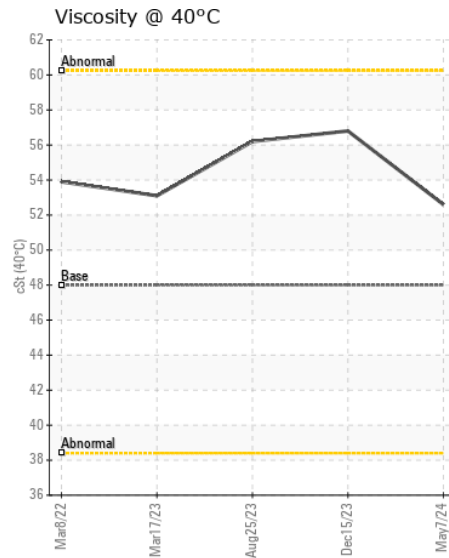
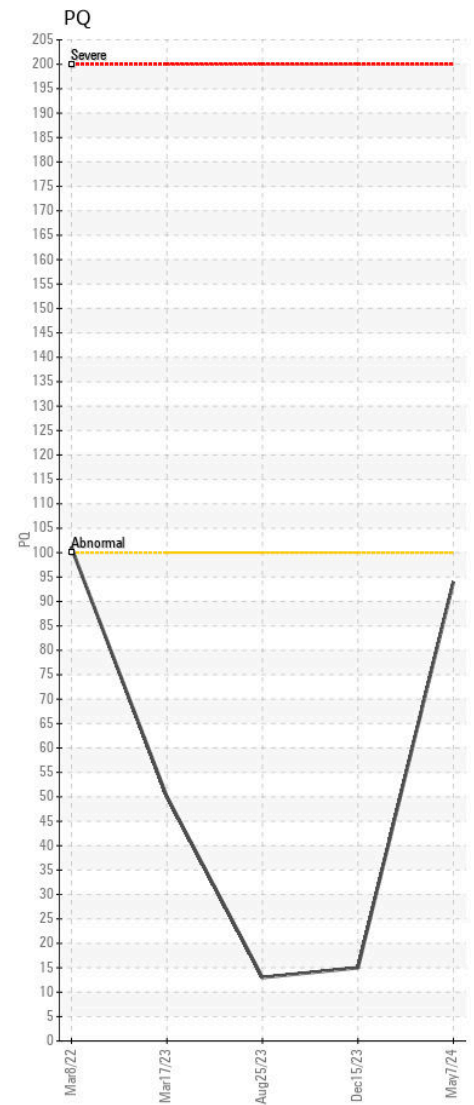
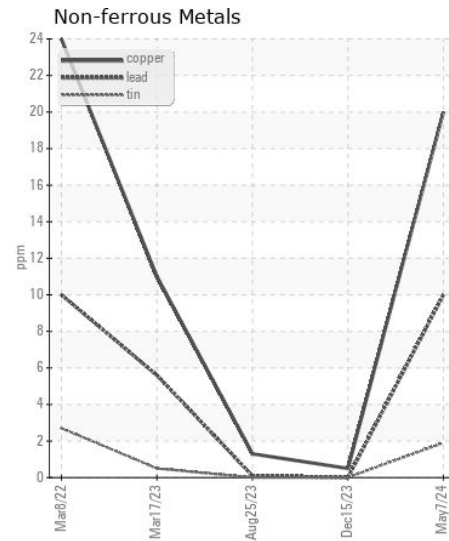
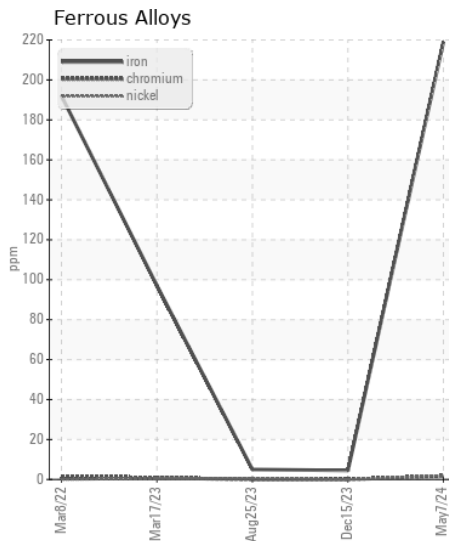
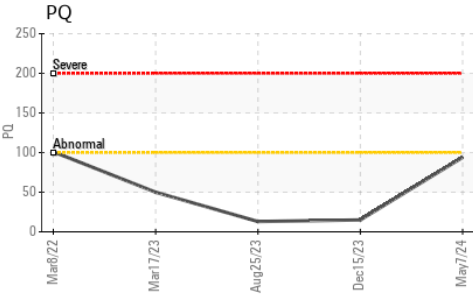
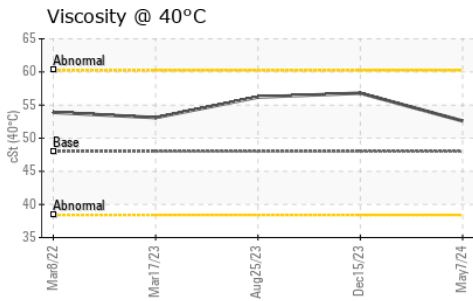
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	17	15	18
Potassium	ppm	ASTM D5185m	>20	4	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	2	<1
Boron	ppm	ASTM D5185m	10	<1	<1	0
Barium	ppm	ASTM D5185m	10	0	0	1
Molybdenum	ppm	ASTM D5185m	10	1	0	<1
Manganese	ppm	ASTM D5185m		6	<1	<1
Magnesium	ppm	ASTM D5185m	100	94	96	94
Calcium	ppm	ASTM D5185m	3500	3295	3146	3575
Phosphorus	ppm	ASTM D5185m	1150	1086	875	1016
Zinc	ppm	ASTM D5185m	1150	1206	1169	1284
Sulfur	ppm	ASTM D5185m	5000	4301	3472	4157
Visc @ 40°C	cSt	ASTM D445	48	52.6	56.8	56.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213039 **Received** : 09 May 2024
Lab Number : 06174135 **Tested** : 10 May 2024
Unique Number : 11020188 **Diagnosed** : 12 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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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