



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**JOHN DEERE 544P 1DW544PAKMLZ12381**  
 Component  
**Front Differential**  
 Fluid  
**TDH FLUID SAE 75W80 (--- 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		<b>JR0213042</b>	JR0197749	JR0186388
Sample Date		Client Info		<b>07 May 2024</b>	15 Dec 2023	25 Aug 2023
Machine Age	hrs	Client Info		<b>2966</b>	2504	2016
Oil Age	hrs	Client Info		<b>2478</b>	488	2016
Filter Age	hrs	Client Info		<b>531</b>	531	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>None</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>156</b>	16	8
Iron	ppm	ASTM D5185m	>500	<b>268</b>	4	12
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	<1	2
Lead	ppm	ASTM D5185m	>25	<b>10</b>	0	<1
Copper	ppm	ASTM D5185m	>100	<b>22</b>	<1	3
Tin	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

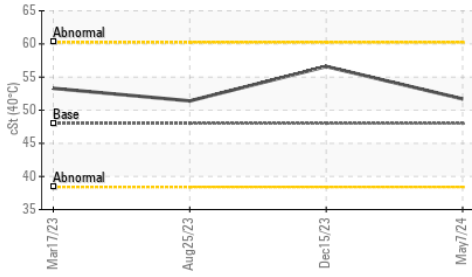
Silicon	ppm	ASTM D5185m	>75	<b>59</b>	14	43
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	0	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

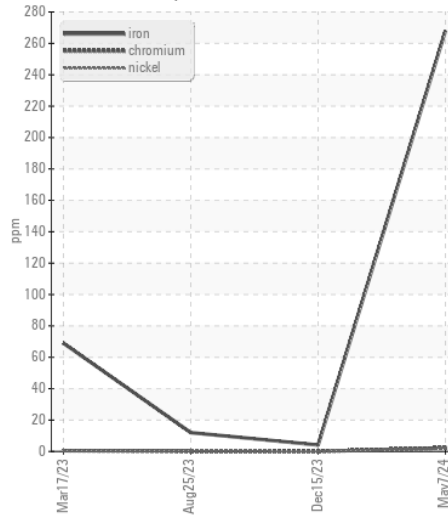
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	6
Boron	ppm	ASTM D5185m	10	<b>2</b>	2	4
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	10	<b>1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>8</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>90</b>	98	85
Calcium	ppm	ASTM D5185m	3500	<b>3237</b>	3173	3323
Phosphorus	ppm	ASTM D5185m	1150	<b>1040</b>	856	1003
Zinc	ppm	ASTM D5185m	1150	<b>1159</b>	1170	1252
Sulfur	ppm	ASTM D5185m	5000	<b>5944</b>	3510	4221
Visc @ 40°C	cSt	ASTM D445	48	<b>51.7</b>	56.6	51.4

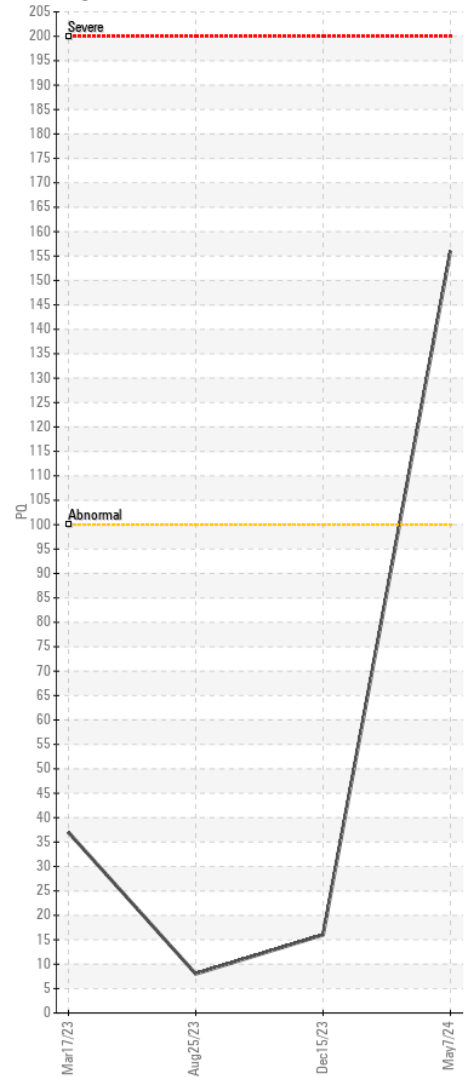
Viscosity @ 40°C



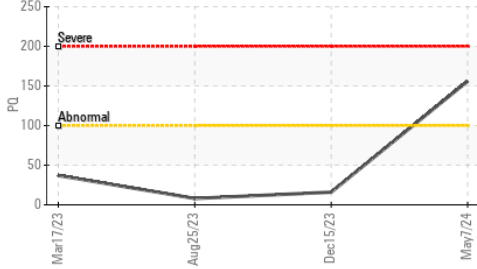
Ferrous Alloys



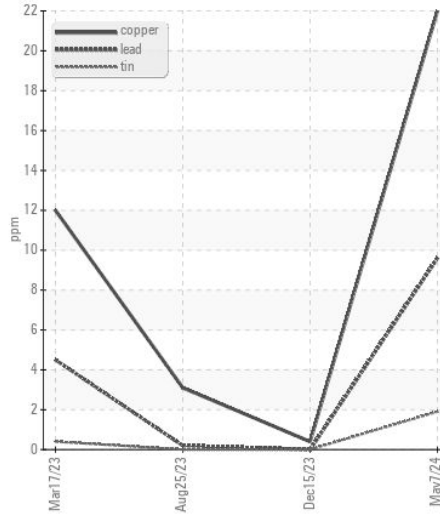
PQ



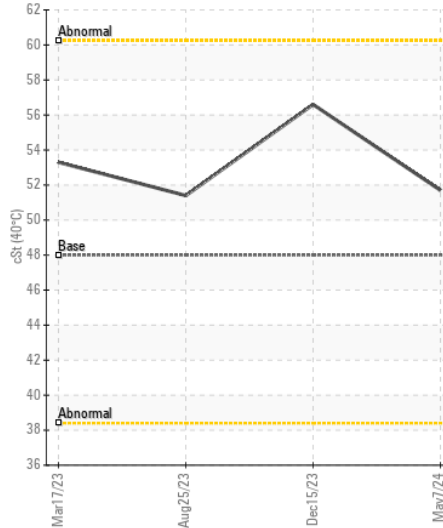
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0213042 **Received** : 09 May 2024  
**Lab Number** : 06174134 **Tested** : 10 May 2024  
**Unique Number** : 11020187 **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  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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)

T: (919)614-2260  
 F: (919)779-5432