



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



Area

**BURKEVILLE**

Machine Id

**JOHN DEERE 300D M01-0305 1DW300DXECE650170**

Component

**Rear Differential**

Fluid

**JOHN DEERE GL-5 80W90 (6 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0224918</b>	JRMC412182	LECP160990
Sample Date		Client Info		<b>02 Jul 2024</b>	21 Mar 2016	18 Sep 2015
Machine Age	hrs	Client Info		<b>12271</b>	2748	2560
Oil Age	hrs	Client Info		<b>0</b>	0	520
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>42</b>	53.0	47.0
Iron	ppm	ASTM D5185m	>500	<b>52</b>	174	150
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>100	<b>20</b>	36	30
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	VHEVY	VHEVY

### CONTAMINATION

There is no indication of any contamination in the component.

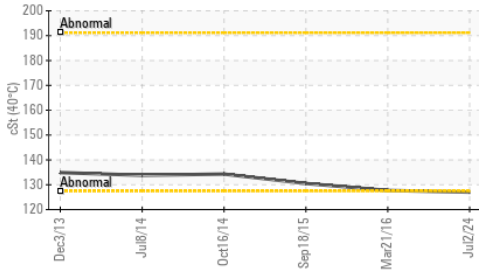
Silicon	ppm	ASTM D5185m	>75	<b>2</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<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

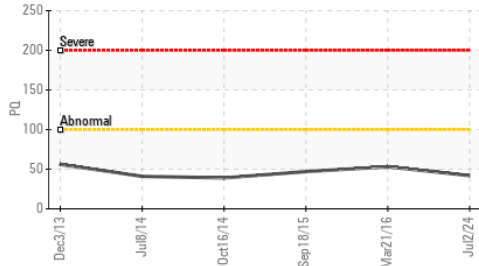
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	2
Boron	ppm	ASTM D5185m		<b>0</b>	4	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	5	4
Manganese	ppm	ASTM D5185m		<b>1</b>	4	3
Magnesium	ppm	ASTM D5185m		<b>6</b>	2	<1
Calcium	ppm	ASTM D5185m		<b>243</b>	14	11
Phosphorus	ppm	ASTM D5185m		<b>586</b>	1246	1246
Zinc	ppm	ASTM D5185m		<b>86</b>	36	33
Sulfur	ppm	ASTM D5185m		<b>27993</b>	21717	21970
Visc @ 40°C	cSt	ASTM D445		<b>127</b>	127.7	130.5

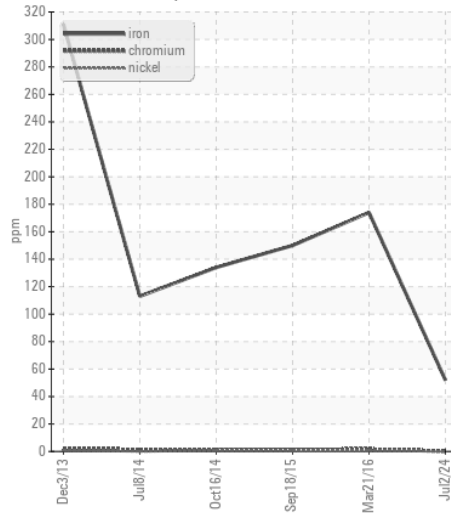
Viscosity @ 40°C



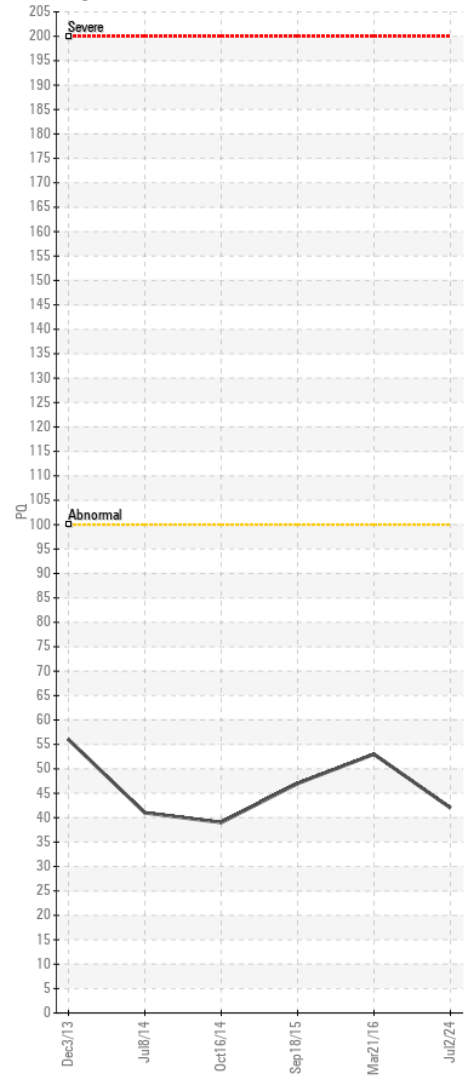
PQ



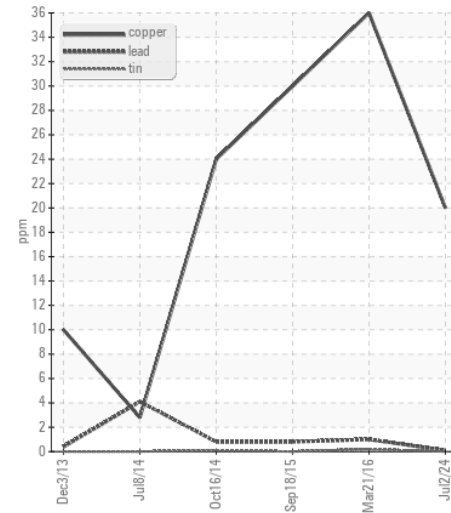
Ferrous Alloys



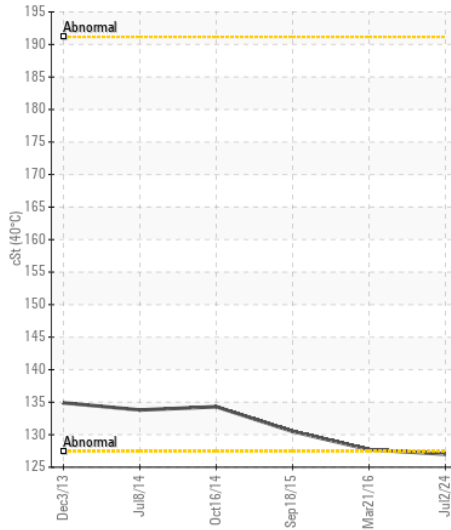
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : JR0224918  
 Lab Number : 06228961  
 Unique Number : 11112454  
 Test Package : CONST ( Additional Tests: PQ )

Received : 05 Jul 2024  
 Tested : 08 Jul 2024  
 Diagnosed : 08 Jul 2024 - Don Baldrige

**LUCK STONE - MILFORD**  
 19380 RICHMOND TURNPIKE  
 MILFORD, VA  
 US 22514  
 Contact: BRYAN MORRIS  
 bmorris@luckstone.com  
 T: (804)400-3630  
 F: x:

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)