

RIDE THE DUCKS INTERNATIONAL
Fleet Operations & Safety
2320 West Highway 76
Branson MO 65616

Bulletin No. SB-00-01-16

Release Date: 1/8/16

Effective Date: 1/8/16

Supersedes: N/A

Applicable to: All Ducks

Total Pages: 9

SERVICE BULLETIN

REASON FOR RELEASE: To enhance the inspection of safety critical components beyond visual examination, RTDI is releasing this Service Bulletin in order to provide guidance with regards to an annual Non-Destructive Testing Program (NDT), RTDI highly recommends you establish this program for the 2016 operating season. To initiate this program, RTDI has identified key components that require NDT testing. Moving forward RTDI additionally recommends all components listed below be required to provide for positive identification notifying the user the components have been NDT tested. Documentation and notification requirements are as follows:

1. All newly received components require a numerical tag notifying the user the component has been tested.
2. All numerically tagged components must be documented (via spreadsheet) the following information must be provided:
 - The components numerical number (tag ID) Example: SD-107 or TD-107
 - The official number of the duck (O.N.) the component is installed on.
 - Dates of annual testing of that particular component.
 - Components "NOT" in service shall be documented in the same manner and listed as "Inventory"
 - Any component that fails annual testing must be removed from service and destroyed.
 - Any component that fails annual testing must be documented (Removed from Service) and dated.

DIRECTIONS:

1. Inform and review this Service Bulletin with your staff.
2. Contact a local company qualified to perform and familiarized with the procedures listed on pg. 2
3. It is recommended you request documented proof (certifications) from the tester and keep on file.
4. Establish a means to identify tested components. Numerically engraved tags are preferred. See example pg. 3
5. It is recommended to conduct NDT testing during off season (heavy rebuild period) when the areas that require testing are already exposed due to maintenance. Depending on the set up time and the condition of the components, the testing takes approximately 1 -2 hours per duck. Most testing companies encourage you to provide for a 10 hour day. Testing can be conducted while axle housing are installed on the duck.
6. Ensure the testing company provides you a written report. See example pg. 4 - 6
7. Ensure tester understands the locations that require testing. See examples pg. 7 - 9
8. Acknowledge receiving this Service Bulletin via email to fenglish@ridetheducks.com
9. Maintain awareness of this Service Bulletin and resulting action for an appropriate period to ensure effectiveness of the corrective action.

COMPONENTS AFFECTED BY THIS SERVICE BULLETIN:

TRUCK DUCKS (See pg. 7 areas to be inspected - photos)

- A. Front - Axle Spindles
It is advised to replace damaged front axle spindles with:
 - Part Number 4316SP - Forged Rockwell 2.5 Ton 4340 Front Spindle (STOCK)
 - Contact Ouverson Engineering and Machine, phone number (320 -983 - 3030) ask for Steve Ouverson
- B. Rear - Intermediate Axle Housing Spindles
- C. Rear - Tag Axle Housing Spindles

STRETCH DUCKS (See pg. 8 - 9 areas to be inspected - photos)

- A. Front - Axle Housing Spindles "Weld Collar"
- B. Front - Axle Spindles
- C. Rear - Intermediate Axle Housing Spindles "Weld Collar"
- D. Rear - Tag Axle Housing Spindles "Weld Collar"

NOTE: All work must be performed by qualified personnel. Use only authorized components, specified or provided by Ride The Ducks. All applicable OSHA safety standards and safe industry practices must be observed. Observe all safety information contained in the manufacturer's manuals. Make available this bulletin and all related technical information to personnel using the equipment.

[CONTACT US VIA EMAIL](#)

RTDI FLEET OPS HOTLINE: 417 266 7676

RTDI PARTS: 417 266 7626

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NON-DESTRUCTIVE TESTING EXAMINATION PROCEDURE:

MAGNETIC PARTICLE TEST REPORT

CLIENT: RIDE THE DUCKS

PROJECT: STRETCH DUCK AXLE HOUSING SURVEY

PROJECT #: 20142-15

DATE OF EXAMINATION: 12/9/2015

COMPONENT ID: DUCK UNIT # SD #9

COMPONENT MATERIAL: CARBON STEEL

MATERIAL THICKNESS: VARIED

EXAMINATION PROCESS

EQUIPMENT MFR: Parker Probes MODEL & SERIAL NO.: B310/ SN: 3037 - 11-8-15

PARTICLE TYPE: Met-L-Chek Suspended Wet Fluorescent MAGNETIZATION TECHNIQUES: Yoke

TYPE OF CURRENT: AC QUALITY REQUIREMENTS: ASTM E-709

ACCEPTANCE CRITERIA: ASTM E-709 PROCEDURE USED: ASTM E-709/ AE-MT-01

LIGHTING EQUIPMENT: High Intensity UV LED Flashlight PARTICLE COLOR: 1400B Yellow

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MAGNETIC PARTICLE TEST REPORT

CLIENT: RIDE THE DUCKS PROJECT: STRETCH DUCK AXLE HOUSING SURVEY
PROJECT #: 20142-15 DATE OF EXAMINATION: 12/9/2015
COMPONENT ID: DUCK UNIT # SD #9
COMPONENT MATERIAL: CARBON STEEL MATERIAL THICKNESS: VARIED

EXAMINATION PROCESS

EQUIPMENT MFR: Parker Probes MODEL & SERIAL NO.: B310/ SN: 3037 - 11-8-15
PARTICLE TYPE: Met-L-Chek Suspended Wet Fluorescent MAGNETIZATION TECHNIQUES: Yoke
TYPE OF CURRENT: AC QUALITY REQUIREMENTS: ASTM E-709
ACCEPTANCE CRITERIA: ASTM E-709 PROCEDURE USED: ASTM E-709/ AE-MT-01
LIGHTING EQUIPMENT: High Intensity UV LED Flashlight PARTICLE COLOR: 1400B Yellow

EXAMINATION RESULTS

COMPONENT ID	ACCEPT	REJECT	INDICATION	REMARKS
Rear Intermediate (Drive) Axle Spindles - Drivers Side	X		No Relevant Indications @ Time of Inspection	
Rear Intermediate (Drive) Axle Spindles - Passengers Side	X		No Relevant Indications @ Time of Inspection	
Rear Tag Axle Spindles - Drivers Side	X		No Relevant Indications @ Time of Inspection	
Rear Tag Axle Spindles - Passengers Side	X		No Relevant Indications @ Time of Inspection	

JOHN E. COOK - CWI # 09051871 / LEVEL II NDE TECHNICIAN



John Cook
CWI 09051871
QC1 EXP. 5/1/2018

12-14-15

SIGNATURE: John E. Cook

DATE: 12/14/2015

2045 W. WOODLAND SPRINGFIELD, MO 65807 PH: 417.866.2741 FX: 417.866.2778 WWW.AEINCMO.COM E-MAIL: AEINC@AEINCMO.COM
ENGINEERS * SURVEYORS * LABORATORIES * DRILLING

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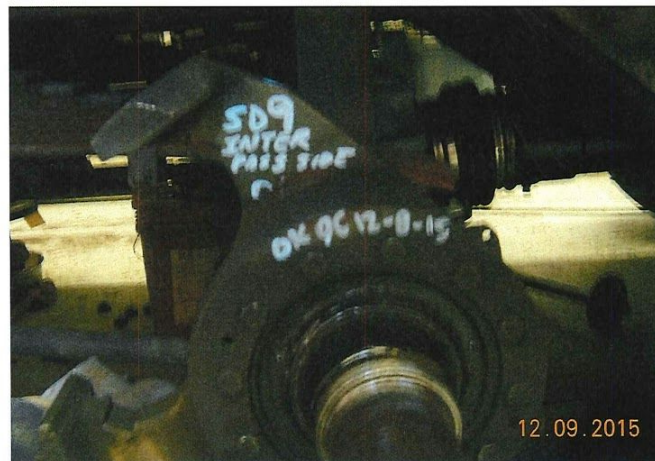
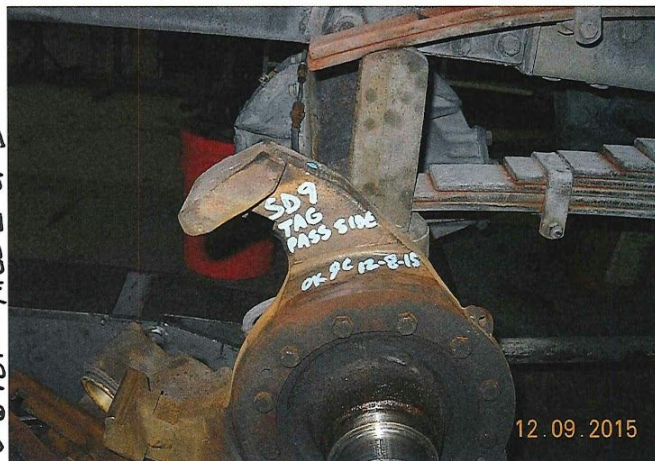
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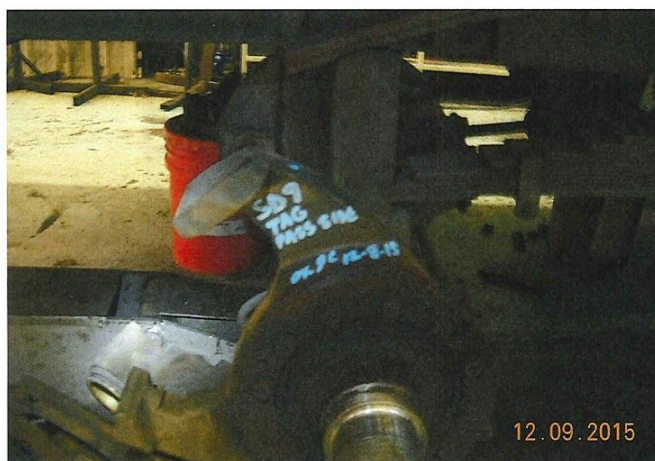
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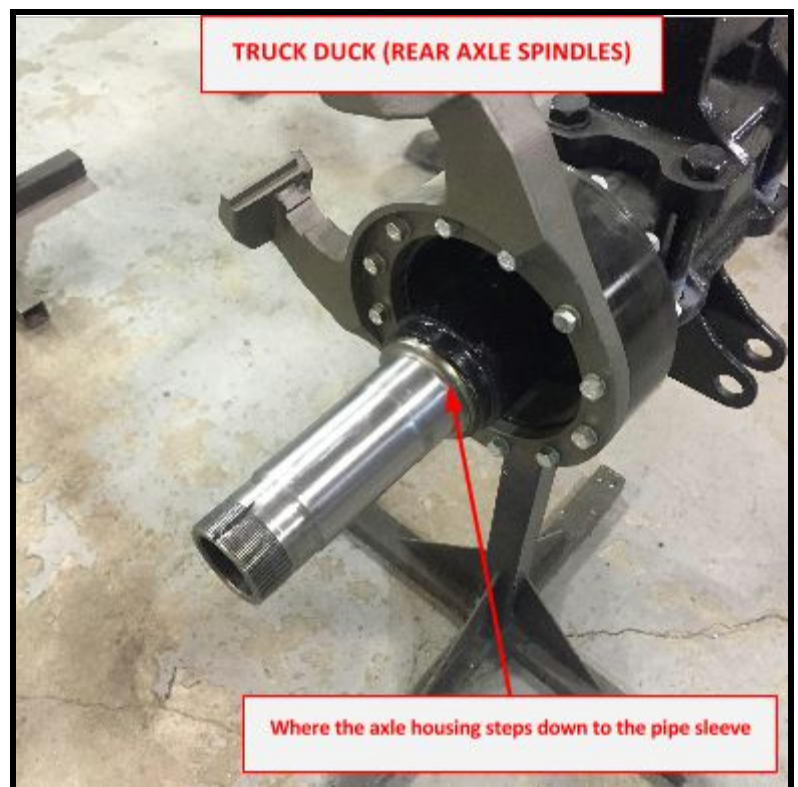
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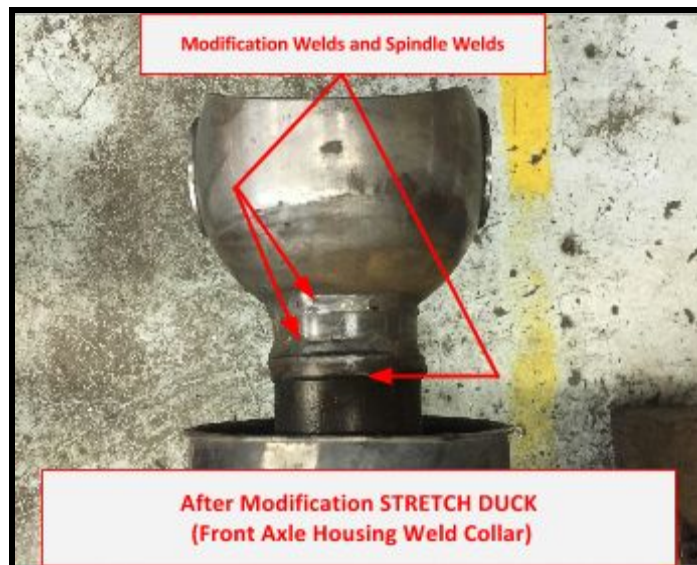
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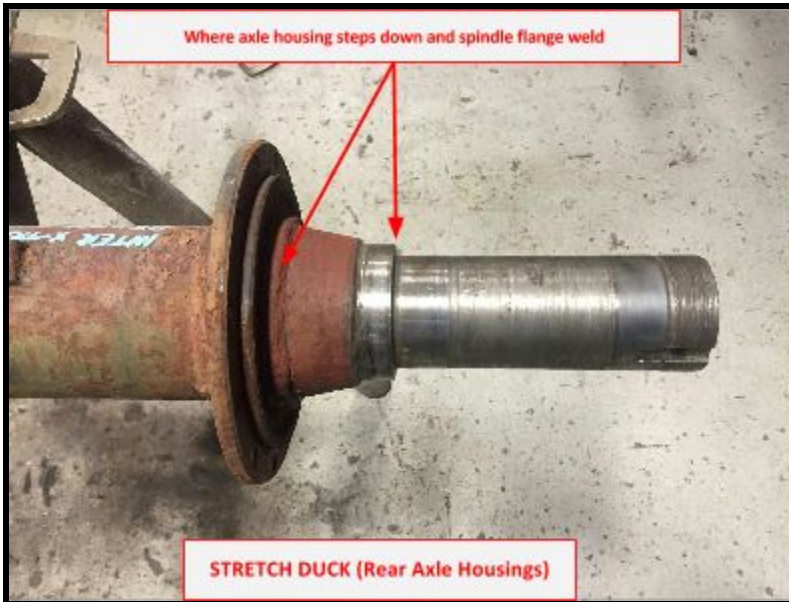
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