

**Report No:** M19-0785  
**Date:** 11<sup>th</sup> March 2019  
**Client:** AustBore Pty Ltd  
**Contact:** Anthony Anastasi  
**Subject:** The initial Magnetic Particle examination of welds, bolt holes and transitions to suit one [1] EX5500 Carbody.  
**Test Location:** 12 – 16 Progress Drive, Paget QLD 4740.  
**Order No:** P31944  
**Client Job No:** J19955  
**Technician:** Jordan Geisler

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**Results of Examination:**

Results of examination are detailed in Table 1 of this report.  
All measurements provided in millimetres unless stated otherwise.



Accredited for compliance  
with ISO/IEC 17025 - Testing  
Accreditation no. 15420

**Reported By:**

Craig Birkett  
ISO 9712 Level 3  
Technician

**Report Issue Date:**

13<sup>th</sup> March 2019

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## TECHNICAL DATA

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### MAGNETIC PARTICLE EXAMINATION

<b>Test Standard:</b>	AS 1171-1998
<b>Test Procedure:</b>	MT01
<b>Product Criteria:</b>	To detect cracking
<b>Technique:</b>	Magnetic Flow
<b>Current Type:</b>	Sustained
<b>Magnet:</b>	AC yoke MT27
<b>Media:</b>	Smartcheck MPIBA / Smartcheck MPIWA
<b>Material:</b>	Carbon Steel NFS
<b>Surface Condition:</b>	Grit blasted
<b>Demagnetized:</b>	No
<b>Test Restrictions:</b>	Nil

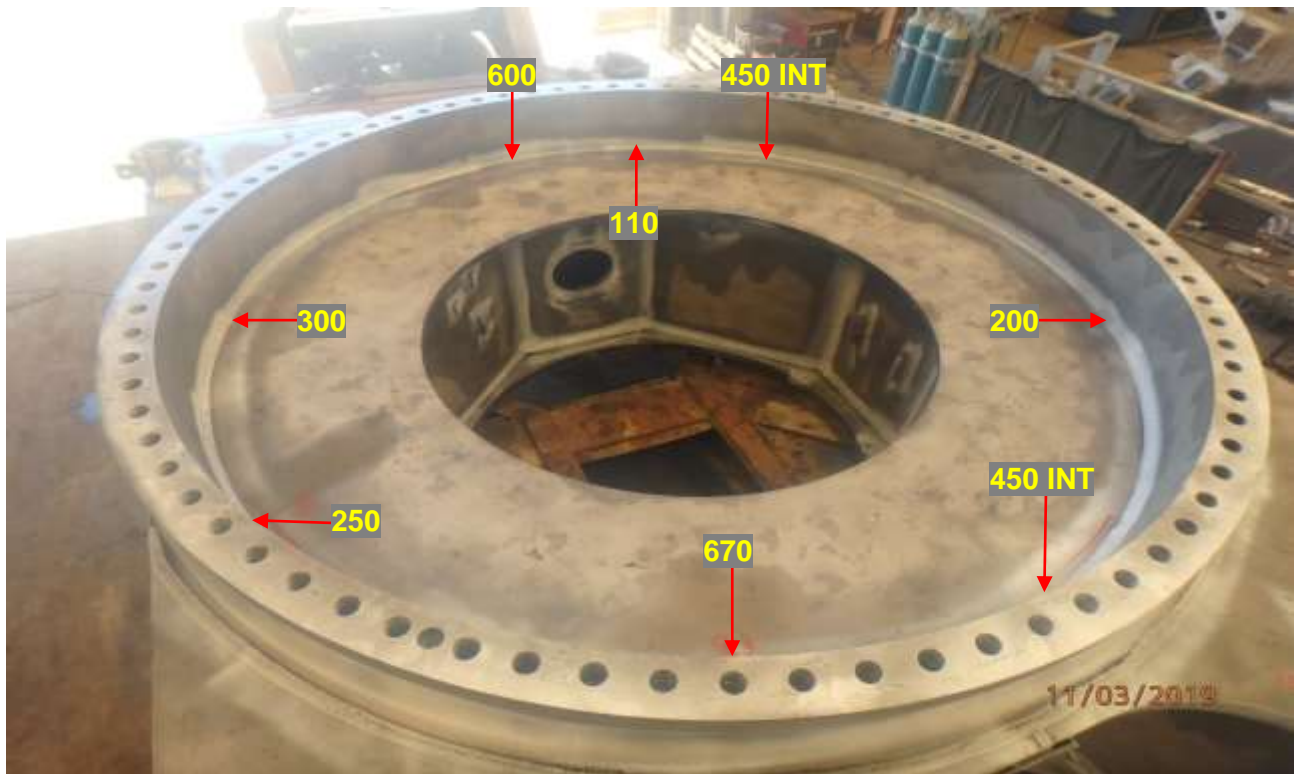
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**RESULTS OF EXAMINATION**

The initial Magnetic Particle examination of welds, bolt holes and transitions to suit one [1] EX5500 Carbody.  
Job number: J19955

**TABLE 1**  
**Magnetic Particle Examination**

<b><u>Examined</u></b>	<b><u>Interpretation</u></b>
<b>1.1 Carbody Internal Welds, Bolt holes and Transitions</b> MPI 100%	Cracking detected – <i>refer to Photographs 1.1. to 1.5.</i>
<b>1.2 Carbody External Welds, Bolt holes and Transitions</b> MPI 100%	Cracking detected – <i>refer to Photographs 1.6. to 1.9.</i>



**Photograph 1.1.**

General view of areas examined and cracking detected about Carbody, Top Internal JNJ19955



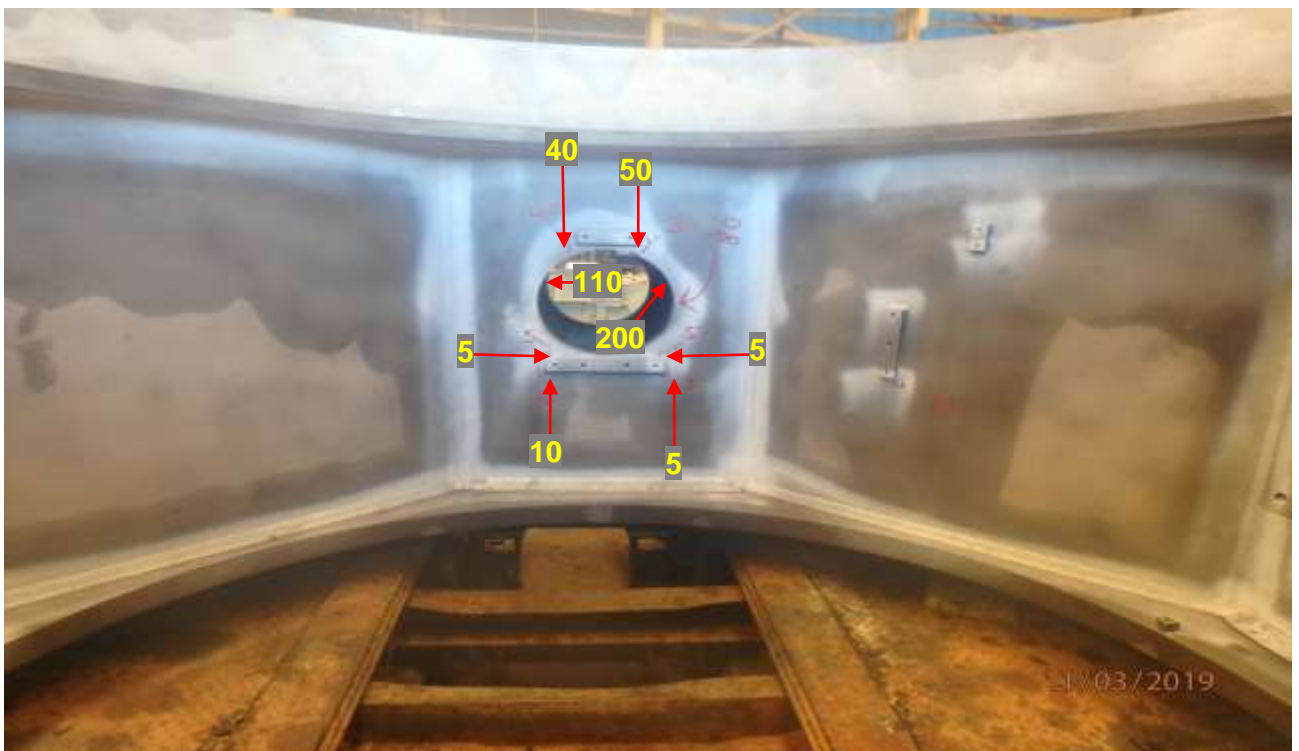
**Photograph 1.2.**

General view of areas examined and cracking detected about Carbody, Front Internal JNJ19955



**Photograph 1.3.**

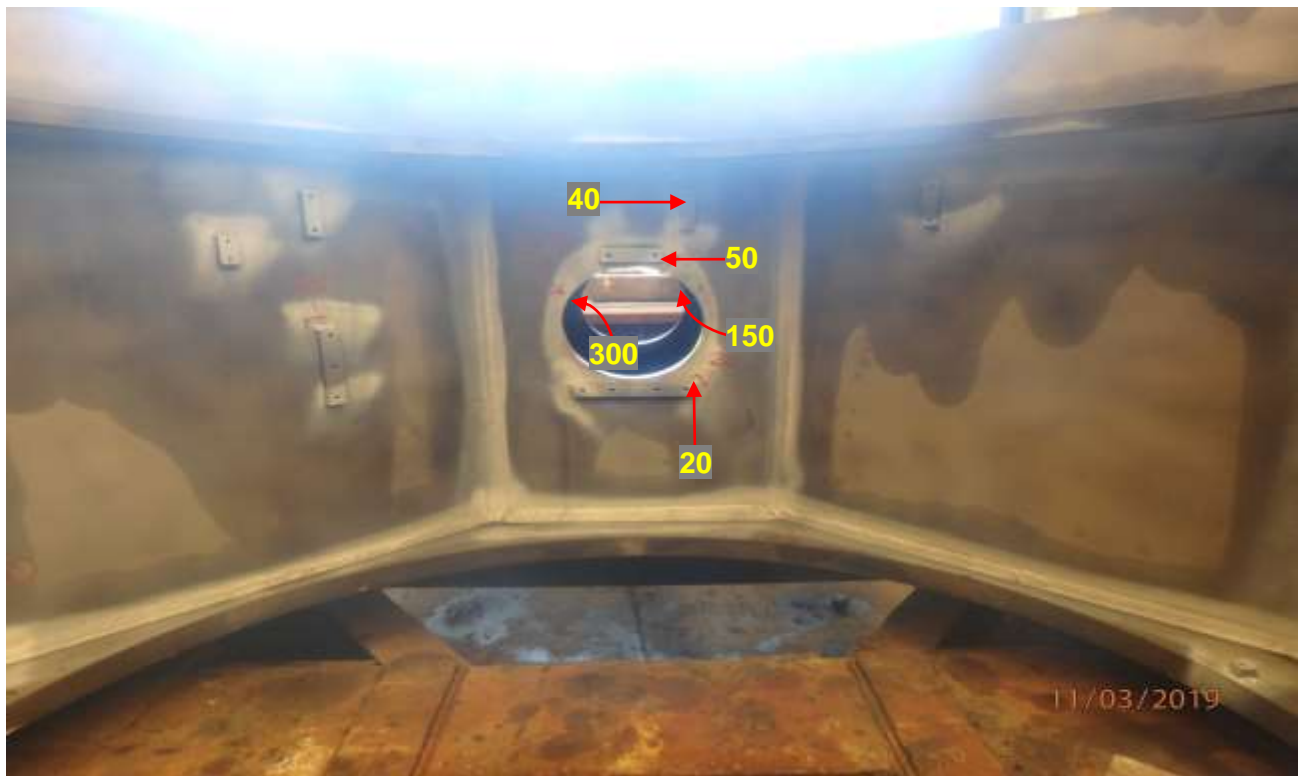
General view of areas examined and cracking detected about Carbody, Rear Internal JNJ19955



**Photograph 1.4.**

General view of areas examined and cracking detected about Carbody, LHS Internal JNJ19955





**Photograph 1.5.**

General view of areas examined and cracking detected about Carbody, RHS Internal JNJ19955



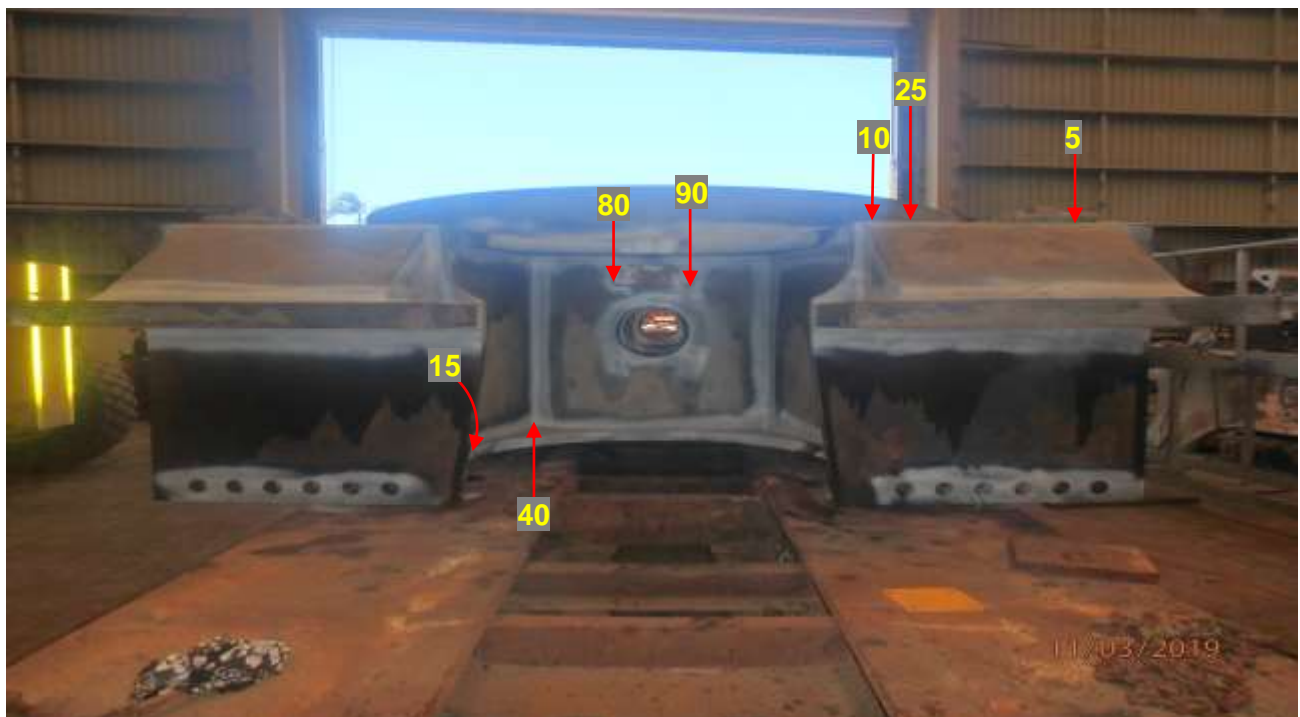
**Photograph 1.6.**

General view of areas examined and cracking detected about Carbody, Front External JNJ19955



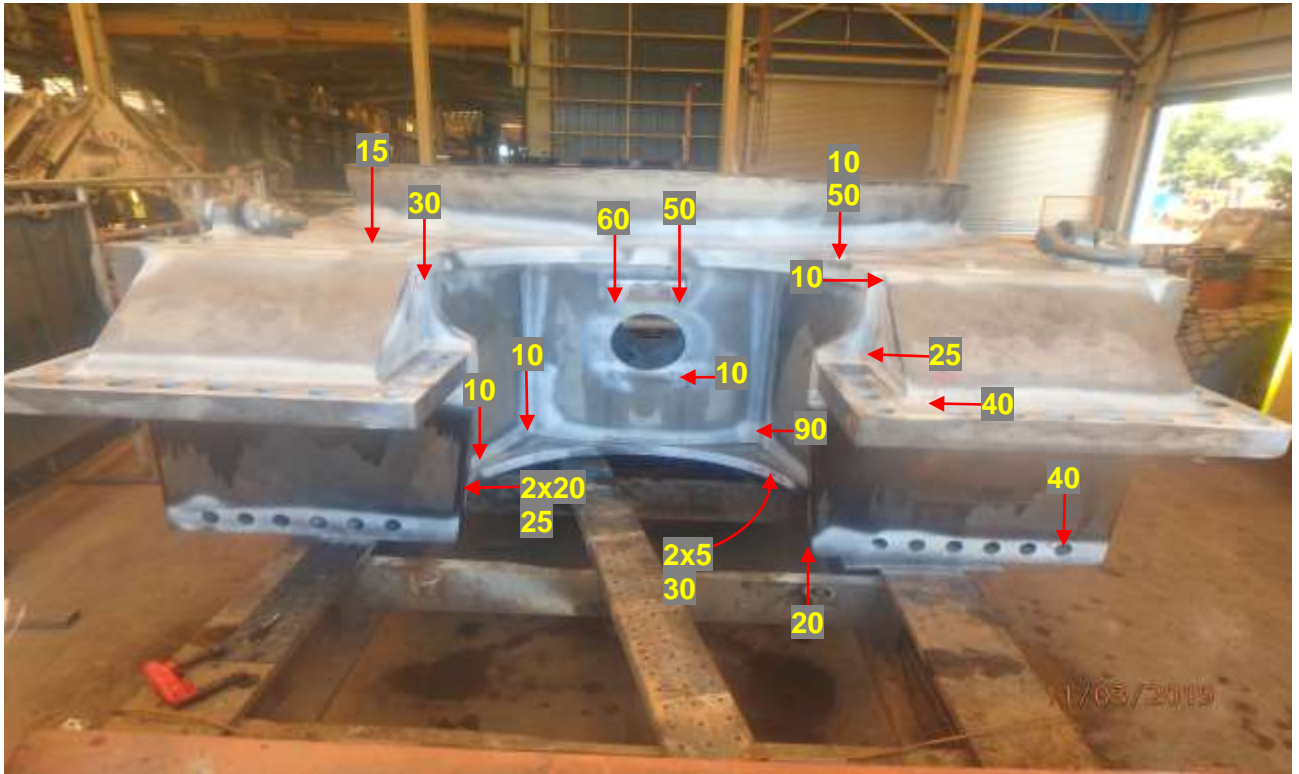
**Photograph 1.7.**

General view of areas examined and cracking detected about Carbody, Rear External JNJ19955



**Photograph 1.8.**

General view of areas examined and cracking detected about Carbody, LHS External JNJ19955



**Photograph 1.9.**

General view of areas examined and cracking detected about Carbody, RHS External JNJ19955