

FLUORESCENT MAGNETIC PARTICLE AND DYE PENETRANT INSPECTION REPORT

JOB NO: 777F Final Drive **REPORT No:** A2404-077 0755 CLIENT: Hunter Valley Rebuild Centre 4 April 2024 **TEST DATE:** CONTACT: Corey O'Connor **ORDER NO:** PO2349 LOCATION: 27 Kyle St, Rutherford **REPORT DATE:** 4 April 2024 SUBJECT: 100% of accessible surfaces **TECHNICIAN:** Geoffery Abbott

TECHNICAL DATA - MAGNETIC PARTICLE INSPECTION

Test Specification: AS 1171-1998 APEC Test Procedure: APEC.NDT.008

Material: Carbon Steel Test Method: A.C. Sustained Magnetic Flow

Acceptance Standard: Evaluation for cracking Demagnetised No

Surface Condition: Complies with clause 3.2 **Test Restrictions:** Painted surfaces not inspected.

Black Light: Labino S/N: 18574 **Magnetising Unit:** Yoke S/N: MP4343

Media: Fluoro #0623602 Lighting: UV >10W/m² at 380mm <20Lux

TECHNICAL DATA - LIQUID DYE PENETRANT INSPECTION

Test Specification: AS 2062-1997 APEC Test Procedure: APEC.NDT.009

Material: Not specified Test System: Type 2, Method A, Form d, Cl 1

Acceptance Standard: Evaluation for cracking Lighting: Natural > 1000lux

Surface Condition: Machined Test Restrictions: NIL

Media: Penetrant #27722

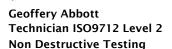
Developer #26322

EXAMINATION NOTES

A Fluorescent Magnetic particle Inspection was carried out on all accessible unpainted surfaces associated with 777F Final Drive components, to determine the extent of potential cracking. In addition, a Dye Penetrant inspection was carried out on bearing journals. Please refer to the following table and photographs for detail and inspection results. NOTE: A Black/White MPI was used on cracked areas for reference purposes.

EXAMINATION SUMMARY

Description of Component Inspected	<u>Results</u>
Job No: O755 Project: 777F Final Drive	No cracking detected
Item: Barrel	The cracking accepted
Job No: O755	
Project: 777F Final Drive	No cracking detected
Item: Spindle	
Job No: O755	
Project: 777F Final Drive	No cracking detected
Item: Anchor Gear	
Job No: 0755	
Project: 777F Final Drive	No cracking detected
Item: Ring Gear	





Stephen Baillie Technician ISO9712 Level 2 Non Destructive Testing





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Photo 1 - Overview of Hub inspected.



Photo 2 - Overview of Spindle inspected. Bearing journals sprayed white indicate extent of Dye Penetrant Testing.



Photo 3 - Overview of Anchor Gear.



Photo 4 - Overview of Ring Gear.

APEC Report Disclaimer

a) Where only a percentage of the product has been inspected by the company, the company cannot and will not guarantee the serviceability or compliance of the remaining areas or items not inspected.

b) Where results in this report have relied upon information provided by the client, the company cannot confirm the accuracy of this information. This information will be identified by

c) When deviation is acknowledged and customer instructs to proceed with testing or calibration, the laboratory is to include a disclaimer in the report indicating that the results may be affected. (Example: UT AS2207 of a 5mm WT weld, client instruction to procedure d) Magnetic Particle Testing: To detect cracking – MU statement not required e) Penetrant Testing: To detected cracking - MU statement not required