

# CASE STUDY



## CUSTOMER

Abellio Greater Anglia

## SECTOR

Rail

## SERVICE

Motor Alternator  
Repair

## MA Sets Overhaul

Houghton International was awarded the contract from Abellio Greater Anglia to improve the performance and reliability of all MA sets on Abellio Greater Anglia's fleet of vehicles that service the line between Norwich and Liverpool Street in London. As instructed by Abellio Greater Anglia, Houghton International were to deliver the overhaul against a rigid repair programme and work collaboratively with the customer in agreeing a work scope for each MA set.

## WHY HOUGHTON INTERNATIONAL?

- **HiTRANS™ load testing facilities to simulate MA set operating conditions**
- **Direct access to engineering support and technical expertise**
- **Collaborative working and problem-solving approach**

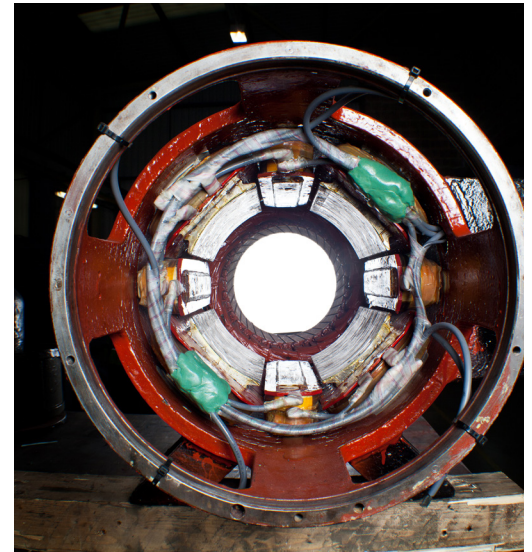


## THE SOLUTION

Houghton International's rail division retain all resources in-house to fully comply with the required specification. After reviewing the scope of work and carrying out further investigations, Houghton International overhauled, repaired and rewound the failed MA sets where required. Applying the HiTRANS™ transient dynamic load test process meant that each MA set was electrically simulated at full load conditions to replicate exactly what happens in service. Furthermore, a clearly defined pricing structure was developed and dedicated contacts for engineering support were on hand providing the highest levels of support for Abellio Greater Anglia.

## THE RESULT

Working alongside the customer, Houghton International has significantly improved the performance and reliability of Abellio Greater Anglia's assets. The innovative HiTRANS™ dynamic load test process was developed to combat the issue of premature in-service MA set failures by fully simulating the full load characteristics prior to install. This has improved the performance and reliability of the vehicles and saved Abellio Greater Anglia significant time and money in replacing faulty units therefore issuing no warranty claims.



*From the outset Houghton International took a proactive approach to improving the performance of our MA sets. Because of their experience and their HiTRANS™ testing we have absolute confidence that when an MA set comes back from Houghton International it will run on the vehicle without issue. Furthermore, if any issues do arise we can rely on the team to diagnose and resolve them in a timescale that fits with our requirements. The team are friendly, open and honest in all communications and have a genuine problem-solving attitude that adds real value to our business. I'm happy our MA sets are in good hands."*

**Stuart Lawler**, Technical Engineer, Abellio Greater Anglia

### Houghton International

Riverside Court, Fisher Street  
Newcastle upon Tyne NE6 4LT  
United Kingdom

**T:** +44 (0)191 234 3000  
**E:** [info@houghton-international.com](mailto:info@houghton-international.com)  
**W:** [www.houghton-international.com](http://www.houghton-international.com)



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