



Addendum to ISL Bus CealDoctor Self-healing Engine Treatment Test ended May 30, 2013

As a result of the ISL test results shown on the final test report, one vehicle in particular, namely Unit 308 showed increases in fuel use. Discussions followed between the management of Cealtec Products Inc. and ISL Bus to determine the cause of this result. All vehicles had lab based oil analysis reports performed on each engine prior to CealDoctor treatment that concluded all engines were in a good state of repair. Following much discussions it was concluded that the likely cause of this negative result during the test period may have been caused due to the following circumstances:

1. All of the Ford E550 buses showed battery related issues from time to time that caused them to have a drain of charge from the battery packs.
2. Battery shut-offs may not have been used during periods of long down time while in storage.
3. When buses were being readied for charters they were started in some cases many hours prior to drivers taking the buses on the charter runs and left idling.

Conclusion

It has therefore been concluded that the mileage results reported were not necessarily accurate since the pre-run idling most time likely compromised the tests and reduced the positive effects from the CealDoctor treatment. Unit 308 in particular may have shown the highest increase in fuel consumption during various periods as a result of extended pre-run idling anywhere from 1 to 3 hours per charter run.

An MCI - Motor Coach Industries report on Fuel Economy Tips has concluded that idling time on a bus consumes 1 gal/hr on average. Since all 3 buses **were not** in full daily service, the mileage and reduced fuel consumption results were lower than normal, and the idle time by all buses may well have reduced the results for all buses during the test phase. Some more than others.

<http://www.mcicoach.com/service-support/technicalTrainingWebinar/fuel112812/fuel112812.pdf>