



SMITHERS

Scientific Services

425 West Market Street, Akron, Ohio 44303-2204

Tel: 216-762-7441, TWX No. 810-431-2112, Fax: 216-762-7447 Cable: Smithers/Akron

An independent testing laboratory was asked to test the **MONSTER SEAL tire sealant formula** in three areas: (1) to demonstrate the "permanent" puncture sealing properties of **MONSTER SEAL** tire sealant, (2) to learn the benefits that **MONSTER SEAL** had on increasing tire tread life, and (3) to determine the contribution **MONSTER SEAL** plays in reducing tire degradation.

The tires that were used in this test had 10,000 miles on them before the start of the test, and then the test lasted 40,000 miles.

When the 12 test tires were returned to the testing laboratory, the six tires that had been punctured during the test were X-rayed at the tread puncture locations to access the extent of wire corrosion and deterioration that had taken place over the 40,000 mile exposure period.

Typically, moisture can penetrate a puncture hole and contaminate the steel belt cords inside the tire, initiating steel wire cord corrosion. No evidence of corrosion or wire cord deterioration were evidenced in the X-rays. *This is very important to the trucking industry because recap companies will not take casings that have any steel belt rust or corrosion.*

In comparison of the linear regression analysis, all groove slope values (miles/1000 miles) showed that the tires containing **MONSTER SEAL** tire sealant wore at a slower rate than the control tires without **MONSTER SEAL**. The six sealant tires yielded an average slope of 3.358 miles per 1000 miles, versus the five without sealant averaging 4.266 miles per 1000 miles. This suggests a 21% tread wear difference in favor of the **MONSTER SEAL** treated tires.

TEST RESULTS

Within the scope and limitations of the test program, the following statements can be made:

1. **MONSTER SEAL** tire sealant produces a "permanent" puncture seal which, under normal driving conditions, prevents air loss in punctured tires for the life of the tread.
2. **MONSTER SEAL** tire sealant appears to increase tire tread life based upon the average wear rate differences displayed between tires having sealant and tires which did not have sealant.
3. X-ray examination of all puncture locations after 40,000 miles of highway testing demonstrated that **MONSTER SEAL** tire sealant prevents moisture from entering the puncture holes, thereby, reducing the possibility of steel belt corrosion and tire separation.