



BUCHER municipal

Case Study:

Bucher Municipal

Industry:

Waste Management

Problem:

Fluid loss in the gearbox on the bin lifter actuator

Outcome:

A custom developed seal that prevented future leaks

About Bucher Municipal

Bucher Municipal is Australia's largest manufacturer of refuse and road sweeper equipment. The Australian operation is a privately-owned subsidiary of the Bucher Industries Group which has operations in 27 countries and owns market leading brands in waste management, snow and ice removal, sewer management and street sweeping. Initially recommended by one of Bucher Municipal's existing hydraulic cylinder suppliers, the business has used hydraulic seals supplied by HSA for over 10 years.



Photo courtesy of Butcher Municipal

"They are able to manufacture new seals, test them comprehensively and give us immediate and accurate feedback on how the seals were performing under test. HSA is always hands-on and will do anything within their power to make sure we have exactly what we need."

Chris Fitzsimmons - Product Design Manager
Bucher Municipal





SECTOR CREDENTIALS

The volume of waste produced each year continues to increase, making the waste management industry a growing market. From road sweepers to waste collection vehicles, the use of hydraulic systems is rapidly becoming a standard with the waste industry.

During long hours of repetitive tasks, the equipment is required to perform without downtime. Breakdowns cost time and money and place strain on an already overscheduled system. Our focus on providing quality products will provide reassurance that the seals will stand up to the rigours of the job.

With over 20-years' experience HSA provides the range of quality, reliable products and the technical expertise to meet the demands of the waste management industry.

Problem

Over the many years of working with Bucher Municipal, we have worked with the designers and engineering staff to solve specific challenges as they have arisen. One standout example occurred when engineering was required to upgrade a bin lifter to improve productivity and reliability. The upgrade resulted in fluid loss in the gearbox on the bin lifter actuator and the engineering team faced the challenge of preventing this while maintaining the performance criteria.

Bucher Municipal called on HSA to enable them to assist with finding a reliable solution.

Strategy

Bucher developed a high rate cycling test rig to simulate months of operation in a few days. HSA worked with their engineers to understand the problem and their technical requirements and used their expertise to develop a seal that eliminated the problem.

Results

No reoccurrence of the issue has been reported since the new seal was introduced into production in 2017.

