



CASE STUDY

Machine Health is a Major Driver of Business Health

How a Roseburg plant is working to transform the way they do business through Machine Health.



Roseburg Company Profile



PLANT LOCATION Simsboro, LA



SIZE OF PLANT 29 acres

Employees at Plant 180

Manufacturing Capacity

230 MM sq. ft. Wood Board Products

Products Manufactured

Particleboard Laminated Veneer Specialty Panels

Type of Machines Monitored

Blowers Compressors Dryers Flakers Sanders Hydraulic Pumps RTO Fans

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It was only a week after Augury went live that we were already seeing benefits. All the issues that had hindered our equipment and were causing downtime were brought to our attention. We immediately went to work tackling the most critical issues on the most critical machines.

Regional Reliability Manager



Total Downtime Cost Avoidance

WITH AUGURY



Traditional Industry, Modern Vision

SINCE 1936, Roseburg has been managing lands throughout North America and manufacturing products such as lumber, plywood, decorative laminate, composite, and other value-added panel products. As times change and client demand for Just-In-time product delivery becomes ever more important, more sustainable and reliable operating platforms become an absolute must for any supplier. Every machine failure can result in thousands of dollars in production loss, increased repair costs, production delays, missed shipments, and ultimately the potential loss of customers. So how could the team at the Simsboro site build a more robust business while continuously being plagued by equpiment failures caused by mechanical issues?

The team at the Simsboro site had previously attempted to address these issues via third party contractors and wired solutions but with little success. With the help of Augury, the plant is deploying a digital machine health tool across their manufacturing site as part of their renewed focus on manufacturing reliability systems.





Implementing Digital Machine Health

THE SIMSBORO PLANT had very specific needs that started with upgrading their overall reliability program, but also required the capabilities of a turnkey equipment monitoring and analysis system. This meant the solution needed to be easily scalable, and integrate into their Enterprise Asset Management System (currently Infor). It also needed to provide insights for both the plant level and corporate stakeholders, while being accessible through the cloud. After an extensive vetting period, Augury was chosen as the partner to help bring the Simsboro site and Roseburg to their next stage of digital transformation.

So what does a Digital Machine Health solution look like? Digital Machine Health digitizes assets at the heart of a manufacturer's operations and automates machine monitoring and diagnostics. As a business transformation use case, Machine Health does double duty: it provides fast time-to-value by making manufacturing assets more reliable but also lays the foundation for higher-level digital transformation by optimizing machine performance and aligning top corporate initiatives with plant-level goals.

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It's motivating to work for a company like Roseburg that is trying to innovate and transform a traditional industry. As a tech, I want modern tools that help me get things done...and Augury's platform has become as important to me as my wrench or drill.

Chad Leggett Maintenance Technician



Six Steps to a Successful Digital Machine Health Program



1. Define the Problem

Augury worked with the Simsboro team to better understand the underlying issues affecting equipment reliability and production results.



4. Assign Responsibilities

The on-site Maintenance Manager, along with his team, were in the best position to manage the program and communicate success with corporate.



2. Choose Your Metrics

Key stakeholders responsible for the program at the plant level, identified downtime dollars saved, labor hours saved, and production output as key metrics to measure the success of the program.

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5. Test and Learn

After deployment, the Simsboro team and Augury's Customer Success team conducted weekly business meetings to check metrics, capture successes, and tackle any obstacles quickly.



3. Map Your Data Flows

Process and work flow maps were created to visualize the flow of information and work orders within the plant.



6. Communicate Results

The Simsboro team worked closely with the Augury Customer Success team to quantify the value of the program as it progressed and routinely communicated metrics, wins, and challenges to key stakeholders throughout the organization.



Planting the Seed for Scalable Results

SOON AFTER DEPLOYMENT, the Simsboro plant saw a return on their investment. Augury's digital health program revealed that 30% of the plant's machines were not performing as desired. The program uncovered a variety of mechanical issues - such as shaft misalignment, severe bearing wear, and imbalance - that the on-site team was unaware of when relying on third party vibration analysts and standard prevention and maintenance schedules.

In one instance immediately after installation on an RTO fan (Regenerative Thermal Oxidizer), the crew was alerted to mechanical looseness, resonance, and bearing wear. Given the advanced notice and actionable insights, they were able to keep the motor running while they waited for the necessary parts to be delivered. Ultimately, catastrophic failure and production loss was avoided. This single event led to a cost avoidance of \$126,000.

Within the first 8 months of deployment, a total of 21 major faults affecting critical equipment were identified, preventing production loss costs of over **\$472,000**.

From determining best manufacturing practices to improving OEE and customer service, Roseburg's Simsboro plant is leveraging technology in order to better operate as a modern forest products plant. By deploying an end-to-end solution that combines 24/7 wireless monitoring of equipment and actionable diagnostics, the team at Simsboro is elevating not only their reliability program but their entire manufacturing process and production output. With the initial successes that have been realized at the site, corporate stakeholders decided to expand the partnership to other manufacturing plants across North America.





Augury is building a world where people can always rely on the machines that matter. Augury supports its partners by enabling Digital Transformation through superior insights into the health and performance of the machines they use to make products, deliver services and improve lives.

To learn more about Augury's Machine Health solution, visit us at **augury.com**.

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