MULTI-NATIONAL AUTO PARTS MANUFACTURER

Avoid Full Operations Shutdown with Predictive Maintenance

Challenge

- Must reduce plant out-of-service times
  - Results directly in lost revenue
  - Reduce unnecessary service crew travel costs
- Predict life-time of factory components & machines
- Predict machine failures that result in plant shutdown
  - Service needs before they become problems
  - Optimize maintenance schedule & crew utilization
- Anticipate needs for replacement components
  - On-hand as needed, without extra carrying costs

Solution

- Unify data in end-to-end tire lifecycle
  - Raw material to finished product
- Range of data sources in their models:
  - Sensor data from the plant operations
  - Log entries
    - Error and failure messages
    - Repair and maintenance service reports

Impact

- Drastically reduce risk of shutdown as result of:
  - Critical equipment failure
  - Parts for repair being unavailable
- Each avoidance $20+ Million per/day cost
  - Likely to avoid 1-2 shutdowns per year

Problem type: Predictive maintenance

Universal relevance: Simple repairs and maintenance can have massive downstream implications. While ‘disaster scenarios’ may be rare, proactive avoidance with AI can keep them to a minimum or eliminate them entirely.