



## MONETARY RISKS OF OIL-FLOODED COMPRESSION IN LASER CUTTING



A farming equipment manufacturer in South Dakota needed a nitrogen booster to aid in the cutting of stainless steel pieces.

This company originally had one of our **oil-free** products, but had since expanded and needed another compressor. To consolidate purchasing orders, they got a nitrogen generation system from a competitor that included an **oil-flooded** booster. Within the first two weeks, the buyer experienced difficulties related to cut quality. The products were coming out with severe oxidation, which resulted in products below their Quality Standards. These were ultimately scrapped due to cut quality and damage. In addition, their laser head had oil droplets on the glass and their filter housing was filled with oil. This caused the manufacturer to replace the laser head entirely. With their booster down so often, they also purchased roughly 12 tanks of liquid nitrogen, hired a different company to cut all 3/8" during this time, bought multiple new filters for the laser, and cleaned N2 lines. Before the cost of labor, this mistake totaled **\$62,398**.

The farming equipment manufacturer ended up switching back to their Hycomp **oil-free** compressor. Unfortunately, due to residue downstream, the issue persisted. Our dependable product worked as intended, but after contamination from the oil-flooded compressor, there was nothing they could do to salvage the situation. The company has learned from their expensive error and contacted Hycomp immediately to invest in a new compressor. They want to work with oil-free products they are certain will not compromise their lasers or product standards. For further details, questions, or case inquiries please see below to contact Hycomp.

**Trust, it's what we build.**