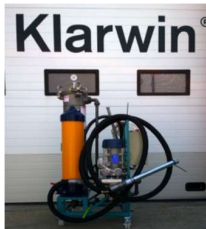




Klarwin Automotive & Industrial Technology

CASE STUDY

RENT A MOBILE FILTRATION UNIT TO IMPROVE ALL NEARBY PROCESSES



(1)



(2)



(3)

Application:

A small plant has several manufacturing processes (broaching, milling and deburring), where cleanliness of the oil is not monitored.

Problem:

Several emulsions from different machine tanks were considered for a cost improvement study.

Solution:

To analyse the impact of cleanliness on several machining processes, a single testing unit was designed. Our customized Mobile Filtration Units (1) use high-quality gear pumps and high efficiency Pall Athalon filters (2) with $\text{Beta}_{x(c)} \geq 20000$ to clean rapidly the oil. The unit is composed of a 100 lpm pump and a BNMO bag filter with magnetic bar and a 20" Athalon filter of 25 μm rating. An automatic filter is placed downstream the pump to protect it. The cleanliness class of the oil was monitored before and after filtration and compared with a recommendation. After the benefits of the filtration were easily observed, the MFU was bought by the customer.

Benefits:

- ✓ Less downtime
- ✓ Better surface quality
- ✓ Less maintenance work
- ✓ Less scrap
- ✓ Reduced costs