

Triple R case study

Application: Hose Cleaning Machine

Fluid type: 252 l of cleaning fluid, 10 cSt at operating temperature.

Purpose: Yokohama Rubber is expanding the cleaning lines, and they need to increase the capacity of the existing models. The currently used fluid has a NAS grade “over 12”, but they require a NAS grade 4.

Result achieved with Triple R: NAS 4

Yokohama Rubber applies a bubbling cleaning system - a mixture of cleaning fluid and air is flushed into the hose to clean it. As a result the dirty tank is full of air bubbles.

Filtering oil full of air bubbles is hard to do because the air bubbles create passages through the filter media, thus allowing particles to pass the filter system.

Triple R solved this problem by installing a QUICKTRON air bubble remover on the CS-SU500-12PF20-4RQ bypass oil cleaning system.

Thanks to the Quicktron air bubble remover, consistent filtration result could be achieved and a NAS 4 cleanliness level good be guaranteed.

Setup:

The CS-SU500-12PF20-4RQ consists of:

- 2 x 12PF20 housings for 1st stage pre-filtration
- 4 x SU500 housings for micro-filtration
- 2 x Quicktron air bubble removers

The oil from the hose cleaning machine is pumped into a “dirty tank”. From the dirty tank the oil is pumped through the CS-SU500-12PF20-4RQ. Before entering the filter housings, the air passes the Quicktron air bubble removers, eliminating the excessive air contamination. From the CS-SU500-12PF20-4RQ the oil flows back into a “clean tank”. From the clean tank the oil is pumped back to the hose cleaning machine.

