



# Industry

## Reference study



### HYDRAULIC SYSTEM



The 1300ltrs. oilreservoir, here shown with a Europafilter cleaner assembled. The filter cleans in a kidney loop.

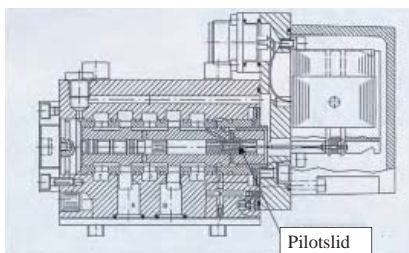
CUSTOMER:



ABB LUDVIKA  
Hydraulic.  
Contact: Tord Larsson

### SYSTEM

Hydraulic machine for cutting of transformer steel sheets  
Fabricate: Heinrich Georg GmbH  
Build Year: 1992  
Oil volume: 1300 ltr. Mobil, NUTO HP 46 cSt oil.



Servovalve of Schneider fabricate. A Brow/black coating was observed on the pilotslid. This sticky coating made the pilotslid lock in the valve circuit.

### CHALLENGE

Coating on the pilotslid caused trouble with operational reliability on the transformer sheet cutter. A brow, black and sticky coating caused the valve to hang and malfunction. A service man from Heinrich Georg GmbH was contacted and he trimmed the system but the trouble continued. The hydraulic oil was changed but the problems still continued...

### SOLUTION

A standard Europafilter offline oil-cleaner unit, with only one filter, was assembled to the oilreservoir. The oil-cleaning process proceeded continuously during full production. After a couple of days the trouble with the hydraulic system was gone and it has not appeared again since.

### RESULT

The table under shows the results of oil analysis, after installation of the "Europafilter" The analysis are performed by "Västerås PetroleumKemi" oil lab. Hydraulic problems are gone.

Contamination in lub, mg/pr.100ml.			
	30/12 -04	11/01 -05	28/02 -05
Mech. contamination	1,9	0,4	0,2
Chem. contamination	0,5	0,2	<0,1
Tot. contamination	2,4	0,6	0,2



### Did not believe the supplier

"- The description of how the filter works and how it had solved similar problems in other fields, sounded so good that we did not really believe it. Still we decided to test and after the unit was assembled the hydraulic system has worked" Says Tord Larsson, production manager of this machine at ABB.