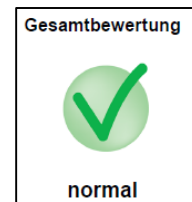




Use: **Hydraulic unit in a wheel rolling mill**

Objectives: *Prevention of condensation and permanently good oil quality*

Water and dirt particles are 80% the cause of damages in hydraulic systems, gears and bearings. In many industrial companies extremely environments are everyday followers and sources of high costs.



In July 2013, a GIEBEL Adsorber® was mounted on a hydraulic unit in a German wheel rolling mill, together with a 600l fresh oil filling.

During a 4-month observation period, the oil was checked monthly for contamination and, in particular water content in a laboratory.

During this time the hydraulic unit was used unchanged and operated continuously. It was exposed to the usual influence conditions in a rolling mill without restrictions.

The result speaks for itself: **No water in the oil!** The amount of water absorbed was unchanged over the entire period and the oil quality was on fresh oil level! However, the previous year's figures, without GIEBEL Adsorber®, point out a significant difference.

Date of Examination		22.11.2012 „Without“	27.11.2013 „With“	29.10.2013	17.09.2013	12.08.2013
CONTAMINANTS						
Silicium	Si [mg/kg]	9	5	5	3	2
Water K.F.	ppm	431	43	63	54	42
ADDITIONAL TESTS						
cleanliness class	ISO 4406 (1999)	20/18/16	17/15/12	18/16/13	19/16/12	19/16/12

Excerpts from the lab reports from 28.11.2013 and 23.11.2012.



GIEBEL Adsorber®

...setting standards in aeration drying!



Summary & added value:

- Water content after 4 months remained low.
- Oil quality after 4 months of use in the mill remains good, no oil change in sight.
- Installed adsorber does not discolor, use time much longer.
- Operating costs and the risk of unplanned downtimes were reduced!

GIEBEL FilTec, 30.12.2013