

# Preventive OLTC Maintenance

The Best Care for your OILTAP® On-Load Tap-Changers

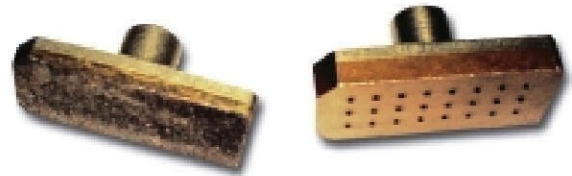
## Let us show you why

- Switching arcs are generated on the main switching and transition contacts of the diverter switch. These arcs cause carbonisation of the switching oil and lead to contact wear. Replacement of the arcing contacts or measures to correct the contact wear differences are necessary.
- As diverter switches operate within 40 to 50 ms, the mechanical parts such as springs, braided contact leads etc. are subjected to considerable stress. Precautionary measures for replacement of the parts are necessary.
- Depending on climate conditions and on the maintenance of the silica gel breather, the quality of the diverter switch oil will be influenced. Timely replacement is necessary.



### MR first class maintenance means

- **The well known MR standard.** More than 70 MR engineers and technicians worldwide, together with our representatives, carry out maintenance strictly to the highest quality and standards maintained by MR. Only our original spare parts are used, supplied by MR and guaranteed to be available for the life time of your tap-changer.
- **The on-load tap-changer knowledge.** As you know, tap-changers are sophisticated. We have the know how.
- **Service experience world-wide.** MR is well experienced as a main contractor in the maintenance of on-load tap-changers. Whether East-Asian, Arabian or other countries in the world, many of our customers benefit from their service contracts with MR. Thus the number of long-term maintenance contracts is increasing constantly.
- **Maintenance in the most economic way.** Co-operation with qualified local partners and MR personnel from Germany ensures that someone is always close to you. This means that maintenance can normally be carried out in one day.
- **MR warranty.** According to our terms of delivery, we grant a 24 months warranty on all original MR spare parts as well as on all service and maintenance works performed by our specialists.



Wear of arcing contacts



Energy accumulator springs



- OLTC components outside the transformer tank such as the tap-changer head assembly, protective relay and motor drive are constantly subjected to changing weather conditions. Thorough check of all components is necessary.
- Up-dating of an on-load tap-changer is an important feature of maintenance performance. During production nowadays each product is subjected to an innovation process, triggered by the use of new materials, new experience put into practice etc.. Installation of up-dating materials is part of the maintenance performed by MR.

**Don't forget: Exceeding the applicable maintenance intervals puts at risk the trouble-free operation of your on-load tap-changer and transformer!**



Diverter switch with carbon deposits



Oil replacement

