

Presence or absence of PCB contamination in insulating oil

Thank you for your continued patronage of our products.

We would like to report on the insulating oil used in high-voltage equipment (high-pressure oil circuit breakers, high-pressure oil switches, etc.) manufactured by Aichi Electric Works Co., Ltd.

The insulating oil delivered and replaced by us is new oil that does not contain PCBs, so there is no possibility that it contains high-concentration PCBs.

However, in recent years, it has been reported that some heavy electrical equipment, which has been said to be free of PCBs, still contains trace amounts of PCBs.

Possibilities of trace amounts of PCB contamination are as follows.

In the manufacturing stage of insulating oil, there are cases where recycled insulating oil manufacturing equipment and new insulating oil manufacturing equipment are shared, and there is a possibility that PCBs are mixed in the new oil.

It has been reported that the possibility of trace amounts of PCBs being mixed in insulating oil produced between 1954, when the production of recycled oil was started, and 1990, when it was discontinued, cannot be denied.

In addition, we have not been able to grasp the circumstances and possibility of contamination during the process from manufacturing to shipping and maintenance inspection.

Oil-filled equipment used to be shipped without injecting insulating oil into the main unit because of the risk of oil leakage during transportation due to its structure.

Insulating oil was treated as an optional accessory, so it was included upon request.

In addition, insulating oil is likely to be replaced in the middle of the installation, as it is a substance that must be replaced periodically during maintenance and inspection after installation.

Therefore, it is necessary to confirm the route to obtain the insulating oil, and to check with the supplier who injected the oil at the beginning or the supplier who replaced it in the middle.

Based on the above, it is currently impossible to completely deny the possibility of trace PCB contamination.