

Title (en)

METHOD OF COOLING THE HYDRAULIC FLUID IN THE WORKING CIRCUIT OF A CONSTRUCTION MACHINE, IN PARTICULAR A HYDRAULIC EXCAVATOR

Title (de)

ÖLKÜHLUNG IM ARBEITSKREISLAUF EINER BAUMASCHINE, INSBESONDERE EINES HYDRAULIKBAGGERS

Title (fr)

PROCEDE DE REFROIDISSEMENT DE L'HUILE DU CIRCUIT HYDRAULIQUE D'UN ENGIN DE CHANTIER, NOTAMMENT UNE PELLE EXCAVATRICE HYDRAULIQUE

Publication

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Application

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Abstract (en)

[origin: US5709085A] PCT No. PCT/EP93/03235 Sec. 371 Date May 17, 1996 Sec. 102(e) Date May 17, 1996 PCT Filed Nov. 19, 1993 PCT Pub. No. WO95/14175 PCT Pub. Date May 26, 1995A method for cooling hydraulic oil present in an operating circuit of a construction machine, and an installation for cooling hydraulic oil according to the method. The method includes the steps of guiding the hydraulic oil at least partially over an oil cooler and thereafter causing the hydraulic oil to flow into a hydraulic oil tank. The hydraulic oil returning from operating areas of the operating circuit is stored intermediately and has an elevated temperature, the storage occurring in an intermediate reservoir spatially separate from the hydraulic oil present in the hydraulic oil tank prior to causing the hydraulic oil to flow into the hydraulic oil tank. The hydraulic oil is pumped from the intermediate reservoir to the oil cooler for lowering the temperature of the hydraulic oil prior to causing the hydraulic oil to flow into the hydraulic oil tank. The hydraulic oil is then caused to flow into the hydraulic oil tank from the oil cooler for mixing the hydraulic oil flowing into the hydraulic oil tank from the oil cooler with the hydraulic oil present in the hydraulic oil tank. The hydraulic oil flowing into the hydraulic oil tank from the oil cooler has a temperature different from the temperature of the hydraulic oil present in the hydraulic oil tank.

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