

ABSTRACT

Disclosed in the present invention is a hydraulic transmission box control system for oil-charge braking of a reverse part of a torque converter. The control system comprises an air source module, an electronic control valve module, a hydraulic unit of a hydraulic transmission box, and a hydraulic control unit, wherein the electronic control valve module is connected to the air source a module, and the hydraulic control unit is connected to the electronic control valve module and is used for acquiring a traction/braking signal of the hydraulic transmission box; and the hydraulic unit is used for implementing an oil-charge/oil-discharge operation of the hydraulic transmission box on the basis of the traction/braking signal. A cooling unit comprises a traction heat exchanger, a three-way transfer valve and a braking heat exchanger, which are connected in sequence. By means of providing a two-position three-way valve and a drainage valve in the control system, full-oil-charge reverse braking of the hydraulic transmission box is changed into partial-oil-charge reverse braking, and the braking heat exchanger is additionally provided, so as to solve the problems of a braking force of a locomotive being too large, the capacity of a heat exchanger of the torque converter being insufficient, and the braking force being easily mastered, thereby making it

convenient to operate the braking performance of the hydraulic transmission box of the locomotive, and greatly improving the economical efficiency and the reliability.

[FIG. 1]