

DYNAMOMETER TEST RESULTS FOR THE APT-P TRAILER HYDROKINETIC (HK) UP TO NOVEMBER 1976

Following satisfactory development and operation of HK brakes on APT-E (up to speeds of 245 km/h and braking rates of 15% 'g') the decision was taken to fit HK brakes to APT-P. In fact, all of the main braking for both power and trailer vehicles will be provided by HK brakes. The trailer vehicles are braked by axle contained HK brakes similar to APT-E, the power cars being served by a transmission variant bolted onto the transfer gearbox. This report deals with laboratory testing on the trailer vehicle variant.

A 'pilot' version of the trailer HK brake was tested on the Vehicles Group dynamometer during 1976, the main series of tests being in November. Various aspects of the brake's performance were looked at in detail and the results are reported herein. A number of areas may require further investigation and these are reported where necessary.

The system as tested proved itself to be satisfactory from a performance point of view, with any detailed comments being provided in the report's conclusions.