

SYSTEM AND METHOD FOR REDUCING WEAR IN A GEARBOX DURING A WASH EVENT OF A GAS TURBINE ENGINE

ABSTRACT

A system for reducing wear during a wash of a gas turbine engine (10) is provided. The system includes an accessory gearbox (45), a transfer gearbox (46) drivingly coupled to the accessory gearbox (45), and a lubrication system (100) fluidly coupled to the accessory gearbox (45) and the transfer gearbox (46). the lubrication system (100) includes a supply circuit (106) for supplying lubricant (104) from a lubricant reservoir (102) to the accessory gearbox (45) and the transfer gearbox (46). The lubrication system further comprises a return circuit (108) for returning the lubricant (104) from the accessory gearbox (45) and the transfer gearbox (46) to the lubricant reservoir (102). The lubrication system further comprises a wash bypass line (168) extending from the return circuit (108) to the supply circuit (106).

[Figure 1]