

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

ABSTRACT

A system (200) 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 and fluidly 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 includes a lubricant reservoir (102), a supply circuit (106) that supplies lubricant (104) from the lubricant reservoir (102) to the accessory gearbox (45) and the transfer gearbox (46), a return circuit (108) that returns lubricant (104) from the accessory gearbox (45) and the transfer gearbox (46) to the lubricant reservoir (102), and a wash system connector (101) couplable to a wash system (80) and fluidly coupled to the supply circuit (106) upstream of the accessory gearbox (45) and the transfer gearbox (46), the wash system connector (101).

[Figure 2]