

SOUTHERN PACIFIC COMPANY
(Pacific Lines)

INSTRUCTIONS FOR THE LUBRICATION OF LOCOMOTIVE VALVES AND CYLINDERS,
AND DRIFTING SUPERHEATED LOCOMOTIVES

MECHANICAL CIRCULAR No. 25

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HYDROSTATIC LUBRICATION

1. The main and auxiliary (booster) steam valves to lubricator should be wide open at all times when engine is in use. Lubricator should be working properly 5 minutes before starting on trip to insure that valves and cylinders will receive proper lubrication.
2. The lubrication is carried by means of steam from the booster valve and delivered to steam chests and cylinders through steam pipe just above steam chest, and depends upon steam for atomization and distribution over the surfaces to be lubricated. Enginemen should watch closely the condition of lubrication on piston and valve rods, as they indicate the degree of lubrication on the walls of the cylinders and valve chambers. Engine oil must not be used on piston or valve rods at any time.
3. Enginemen should frequently note the working of lubricator while on the road, as weather conditions affect its operation; a cold draft through the cab may nearly stop the feeds. The oil should be of sufficient quantity and regularly fed, the amount to be used depending on piston speed and operating conditions. Enginemen should endeavor to keep within the amount allowed to make the trip.

MECHANICAL LUBRICATION

4. On locomotives equipped with Mechanical lubricator, the lubrication is carried to valves and cylinders by forcing oil into steam pipe just above steam chest in a liquid form and depends upon steam for atomization and distribution over the surfaces to be lubricated.
5. Engineer should watch closely the condition of lubrication on piston and valve rods and if at the beginning or during the trip when stopped, these appear dry, he should supply oil by cranking the lubricator, which is accomplished by turning handle of lubricator to the right several turns.
6. Roundhouse Foreman must see that feeds are properly adjusted and operating parts in condition to deliver the required lubrication.