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FROM COLLECTION OF
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In an endeavor to standardize on the adjustment of mechanical lubricator feeds on our steam locomotives, would like you to check carefully the following proposed instructions covering this subject before they are issued to all concerned. The following lubricator pumping unit settings are in general based on those used successfully for some time on the Northern District and also are in accordance with lubricator manufacturer's recommendations:

NATHAN MECHANICAL LUBRICATORS:

Method of Adjusting Pumping Units:

To set the oil feeds on Nathan Mechanical Lubricators, turn ratchet handle to position which places the plungers at the bottom of their stroke. When plungers are in this position, turn regulating screws down until they just touch the top of the indicator rods. Make setting for each pumping unit from this position by opening, or separating the top of the indicator rod and bottom of regulating screw by the number of turns specified below for the part to be lubricated by the particular pumping unit. This opening can either be determined by counting the specified number of turns of the screw or measuring the amount of separation between the regulating screw and indicator rod by inserting the proper thickness feeler gages between these two parts. One turn open of the adjusting screw is equivalent to $1/32$ " separation. Double pumping units are to be adjusted the same as single pumping units as the amount of oil pumped through either line of a double pumping unit is the same as that pumped through a single pumping unit for a given setting of the regulating screw.

Specified Settings for Pumping Units:
(for all classes of locomotives)