

Train Mountain (TM) Steam Engine SAFETY CHECK and WITNESS Form

This form will be used for all steam locomotives. However, those that bring with them proof of a current inspection form from a recognized model train club will only need to complete 1 thru 5 below.

Train Mountain does not require nor recommend that you do a hydro test on the boiler. The owner/operator alone is responsible for this safety check, the results of which are recorded on this form

WITH A Train Mountain AUTHORIZED WITNESS PRESENT, check the box or record the information, as required. Press Hard to assure a good copy.

If home club certified, enter cert and info: _____

Locomotive Owner's full printed name: _____

Locomotive Road Name & Number: _____

Wheel Arrangement "For example 0-4-0": _____

Note: do not fire the boiler until steps 1 thru 5 are completed

1. Enter the certified or operating pressure for this engine in PSI: _____ .
2. Confirm a minimum of 2 ways to put water into boiler, one while the Locomotive is stationary.
3. Confirm a minimum of 2 or more pressure relief valves and the sight glass is properly plumbed.
4. Identify the top of the crown sheet on the boiler's backhead. Verify that the top of the crown-sheet is a minimum of 1/2 inch below the bottom of the sight glass. The sight glass can be modified to achieve this with a mask. Record the actual measurement here: _____ inches. See note 1 below.
5. Check the accuracy of the boiler's pressure gauge. Remove the pressure gauge from the engine as it will be tested on TM's testing device. Pressurize the engines gauge to match the operating pressure of the boiler as noted in #1 above. Note the pressure of the test gauge: and record it here: _____ PSI. (The engines pressure gauge must be within +/- 4% of the calibrated test gauge)
6. Fire the boiler to check and record the accuracy of the two pressure relief valves. Note: There must not be a difference of more than 5 psi between the two valves and the upper pressure must not exceed the MAWP. (ASME and TM allows a variance of +/- 4% from this requirement).
First Safety Valve lifted at _____ PSI, Second Safety Valve lifted at _____ PSI. See note 2 below.
7. Test to confirm the Water Sight Glass is functioning properly. A standard blow down of the sight glass is required. See note 3 below.
8. Confirm the whistle works, or that an appropriate alternative is available.

Locomotive Owner's Signature: _____

TM Witness full name: _____

TM Witness Signature: _____ Date: _____

Notes:

1. Step 4: The 1/2" measurement is appropriate for engines similar in size to a 1 1/2" scale Pacific. Very large narrow-gauge engines require 3/4" to 1" or more above the crown sheet. Long down grades at TM can cause the crown sheet to be uncovered. Be careful.
2. Step 6: By any safe means, hold the lower valve closed so that the pressure rises until the upper valve opens.
3. Step7: Refer to the sight glass blow-down recognized process.

Witness's Notes: _____

