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June 2



H*ow*
does the
WORLD'S LARGEST
THERMOMETER
work?

SO many people have asked about the construction and operation of the giant Havoline Waxfree Oil Thermometer that this folder has been prepared to answer their questions.

How high is the Thermometer?

218 feet.

What is it made of?

Structural steel and sheet metal. There are 90 tons of steel in the framework.

How high are the numerals on the Thermometer?

2 feet.

How large is the "bulb?"

6 feet in diameter.

Is the Thermometer really a giant glass tube filled with mercury?

No. It would take hours for a mercury tube that size to respond to a change in temperature.

What, then, is used to mark the correct temperature on the Thermometer?

Neon light tubes, in sections representing two degrees, register the temperature both by day and by night. At night brilliant floodlights illuminate

all three sides of the Thermometer so that the temperature can be read clearly from a great distance.

How is the Thermometer operated?

By a mercury-filled master thermometer at the base of the shaft, so situated on the outside of the tower as to be protected from the sun but exposed to the air.

This master thermometer is in the form of a metal tube ending in a flexible coil, and is filled with mercury under pressure. The action of heat or cold causes this coil to straighten out or curl tighter, just as blowing on a child's paper "snake" causes it to wind or unwind. This motion is communicated through gears to the electric controlling device inside. This, in turn, by means of a series of relays, causes the sections of neon tubing on the faces of the Thermometer to light up or darken according to the changes in temperature.

Does the Thermometer respond quickly to temperature changes?

Yes. Just as rapidly as the master thermometer records a temperature change, the big thermometers on the three faces of the Thermometer register the change.

Is the Thermometer accurate?

It has Weather Bureau accuracy, regis-

tering at all times the temperature "in the shade" at the base of the shaft.

Why have the makers of Havoline Waxfree Oil erected this Thermometer?

As a reminder to all who see it that Havoline Waxfree Oil is the best motor oil AT ALL TEMPERATURES.

In winter or summer, at zero or 100 in the shade, Havoline is best because it is a 100% paraffin-base oil that contains no wax. Wax turns water-thin with heat and has no lubricating value. Wax turns candle-hard with cold and clogs your motor. Wax has no place in motor oil at any time. KEEP WAX OUT OF YOUR MOTOR.



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