

makes it possible to avoid serious foaming troubles and to increase the engine mileage between washings very materially.

All laboratory analyses are expressed as so many parts per 100,000. This divided by 1.73 would show the same in grains per U. S. gallon.

STEAM.

Saturated Steam. When steam is taken directly from the boiler to the engine without being superheated, it is termed saturated steam. This does not necessarily imply that it is wet and mixed with spray and moisture.

Point of Saturation of Steam. When the vapor has attained the limit of density and pressure, corresponding to the temperature, the steam is said to be saturated, and it is always in the state of saturation when in contact with water. For one pressure there is one density and one temperature, and the higher the pressure the greater is the density and the higher is the temperature.

Dry Steam. When steam contains no moisture it is said to be dry. Dry steam may be either saturated or superheated.

Wet Steam. When steam contains mist or spray intermingled, it is termed wet steam, although it may have the same temperature as dry saturated steam of the same pressure.

Superheated Steam. Superheated steam is amenable to the laws of permanent gases, and behaves