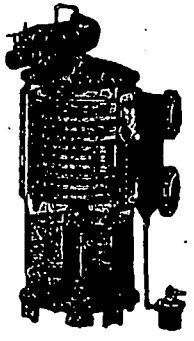
STICKLE HEATERS

—for Greater Heating Capacity in Less Space
—for Gaining Maximum Value from Exhaust Steam
—for Boiler Feed Supply of Purer Water
—for Efficient Trouble-free Operation
—for Type and Size to Meet Specific Needs

SIMPLE • POSITIVE • EFFECTIVE

Here is Why

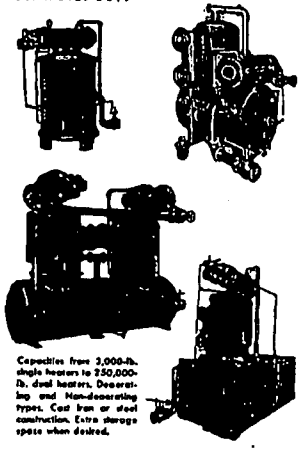


Raw makeup water enters heater at top and travels downward by flowing over a series of open coils, permitting transfer of heat from steam which fills the chamber. Lime and magnesia released and deposited on coils or pans. Oxygen and other non-condensable gases are eliminated.



Water flows in thin film, and in tortuous courses, over pans, and falls in thin streams and small drops, making transfer of heat from steam to water rapid. Condensation of steam used in heating becomes one-sixth of boiler feed supply.

• Consulting engineers who have watched their performance and steam engineers who have had them as equipment are alike impressed with the advantages of Stickle Feed Water Heaters and Purifiers. Stickle Open Coil Design assures effective results in daily operation, obviates upkeep cost, and makes possible a long and satisfactory service life. Ask for Bulletin No. 117.



Capacities from 2,000-lb. single heaters to 250,000-lb. dual heaters. Decorative and Non-decorating types. Cast iron or steel construction. Extra storage space when desired.

Descriptive bulletins and engineering data supplied on Stickle Differential Drainage and Boiler Return System, Stickle Open Float Steam Traps, Stickle Regulating and Reducing Valves, Stickle Temperature Control Valves, or Stickle Oil and Steam Separators.

STICKLE
STEAM SPECIALTIES COMPANY

SPECIALIZING FOR MORE THAN 40 YEARS IN REDUCING THE COST OF STEAM

2265 VALLEY AVENUE, INDIANAPOLIS 18, INDIANA

knowledge their indebtedness to ... their associates whose work has enabl... the preparation of this article, partic... larly to. Walter E Drew and J. ... Kennedy.

Technical Briefs

(*Continued from page 130*)

WATER WORKS MAINTENANCE, *by George H Dann, Philadelphia Suburban Water Co.* Maintenance of a water works system starts the day the water system is placed in service.

Leak Surveys—Immediately the question arises of maintaining the system as near to its original condition as possible. Because a method of checking leakage is of *primary importance*, it is necessary to have a complete piping layout of your plant. If this piping plan is not available, there are pipe locators to locate these underground structures.

Loss of Head Tests—It is also possible, by means of a pitometer rod and a U-tube with pressure gages a known distance apart and with their elevation correlated, to develop a hydraulic slope which will indicate bottlenecks such as partly closed valves, corroded fittings, undersized pipes and other maladies known to the plant engineer.

Cleaning and Coating—If by tests it is found that a pipeline has lost a sizable amount of its original carrying capacity, it is feasible to clean and coat this pipe, bringing the carrying capacity to a point that is comparable to its original condition.

Standpipe Painting—Steel water tanks should receive careful annual inspection. Paint has been and still is a proved method for the *protection* of steel tanks.

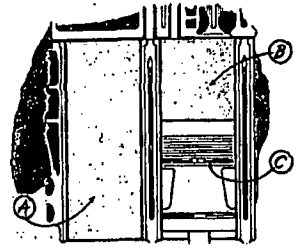
Electrolysis and Corrosion—Corrosion has varied phases. There is the electrolysis or corrosion due to stray railroad currents; there is corrosion caused by sulphate-reducing bacteria; differential aeration is another cause of serious corrosion, and also differences in acidity. *AISE Paper.*

OIL USES *Contd from p 130*

BEARING SEALS, *by R A Kraus, Republic Steel Corp.* With the continued progress in design of higher-capacity plain and antifriction bearings, as well as the steadily mounting working pressure and scope of application of hydraulic devices in heavy industry, all too frequently the necessary sealing device...



CASE D119E—REDUCING WEAR ON LINERS IN DIESEL ENGINES



DIESEL ENGINE LINERS AND PISTON

In high-speed Diesel engines lubricated with RPM DELO Diesel Engine Lubricating Oil, wear on liners was held to a minimum with little variation over their entire areas. A constant lubricating film was maintained on them even in high-temperature belts. RPM DELO Oils are recommended for all types of Diesels. Come in all viscosity grades necessary for your engines.

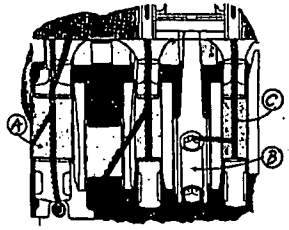
A. Special additive provides metal-adhesion qualities...keeps oil on all parts whether hot or cold, running or idle.

B. An anti-oxident resists formation of lacquer—resistance to extreme heat provides lubrication in the toughest conditions.

C. Contains detergent which keeps rings clean and operating freely...prevents scratching and gouging of liners.

RPM DELO Diesel Oil will not corrode any bearing.

CASE D119F—PROLONGING THE LIVES OF BEARINGS IN DIESELS



SECTION OF DIESEL ENGINE CRANK AND CAM

No bearing failures occurred between overhaul periods in Diesel engines used in the toughest service when they were lubricated with RPM DELO Diesel Engine Lubricating Oil.

A. Non-corrosive to all types of bearing metal...inherent ability of base stocks and added compound resist oxidation and formation of acid which is common cause of bearing corrosion.

B. Maintains a tough lubricating film which withstands excessive shocks and pressures.

C. Special detergent compound keeps oil passages clean and open - allows free flow of lubricant to vital points.

Another compound in RPM DELO Oil prevents foaming of the oil. An accurate measurement of crankcase levels can always be obtained.

For additional information and the name of your nearest Distributor, write

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