



# TECH BULLETIN

**043**  
10/85

*Published regarding engineering changes and improvements*

**SUBJECT: Plunger Pump Lo-Pressure and Hi-Pressure Seal Servicing**

For complete servicing information, refer to the **Diagnosis and Maintenance** section of the **Plunger Pump Service Manual**.

To obtain optimum performance from your CAT PUMP, regularly scheduled maintenance of both seals and valves are necessary. This schedule should be determined on an individual pump basis as each installation varies in performance hours and application conditions.

The first signs of seals wearing is a loss in pressure followed by eventual leaking, if left unattended. Water leaking from the underside of the manifold between the manifold and the crankcase can be caused by any of the following conditions:

- worn Lo-Pressure Seals
- worn Hi-Pressure Seals
- excessive inlet pressure
- prolonged cavitation
- running dry
- excessive heat

When servicing the pump packings, it is recommended that both the Lo-Pressure and Hi-Pressure Seals be replaced as a matched set. Generally, the leaking from the Lo-Pressure Seal area is an indication the Hi-Pressure Seals need replacement. Failure to replace both Lo-Pressure and Hi-Pressure Seals may result in premature wear of other related fluid-end parts or possible water in the crankcase.

Careful examination of the male and female adapters [when used] for any notable wear should also be done whenever the seals are replaced. Good male and female adapters will assure proper support and maximum life for the seals.

**CAT PUMPS**  
Technical Services Department

**Rev. 07/94**