

# NOMOGRAPH INSTRUCTIONS FOR PUMP SELECTION

The nomographs on the following pages are designed to help in the selection of a hydraulic pump. Follow the instructions below, then refer to the pump specifications before the final pump selection is made.

1. Ask customer what the desired engine speed is and mark it on the left bar of (Engine Speed) Nomograph #1 (For Our Example: 2000 rpm).
2. Customer will need to supply the required flow rate for the accessory. Plot this value on the right bar (Pump Flow) of Nomograph #2 (Our Example: 15 gpm).
3. Customer will need to supply the transmission model number and the desired location for the PTO. By using this QR Catalog, select a PTO and plot its percent to engine speed on the center bar (PTO%) of Nomograph #1 (Our Example: 60%).
4. Draw a straight line through the engine speed and PTO% and extend it through the right bar (PTO Shaft Speed), record the result and mark it on the left bar of Nomograph #2 (Our Example: 1200 rpm).
5. Draw a straight line on Nomograph #2 connecting the PTO/Pump Shaft Speed (1200 rpm) with the desired output flow rate (15 gpm). The line crosses the center bar at the pump that will provide that flow at the input rpm calculated (Our Example: PL14).
6. The pump information on page 28 is provided to assist in pump selection based on rated pressure and rpm. If the pump selected in step 5 does not perform in the range desired then selection of another pump might be necessary. This can be done by changing the PTO% and or engine speed. Also, if the line does not cross at a pump listed, then the PTO% or engine speed will have to be changed. This can be done by using the Nomograph in reverse order.