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Hydraulic System Operating Principles. There are two fundamental principles that must be understood when troubleshooting hydraulic system problems. 1. Pumps (which may be vane, gear, or piston types) are used in hydraulic systems to produce sufficient flow to obtain the speed required from cylinders or motors.

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Tighten leaky inlet connection. Fill reservoir to proper level. Bleed air from system. Replace pump shaft seal. Coupling. Tighten coupling. Check condition of seals and bearings. Pump worn or damaged. Repair or replace.

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Solution — If these or other acute problems with varnish exist in a hydraulic system, specialized filters can be specified to help alleviate problems. HYDAC's IXU is an example. In contrast to standard hydraulic filters, the principle behind this filter is chemical, not mechanical.

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