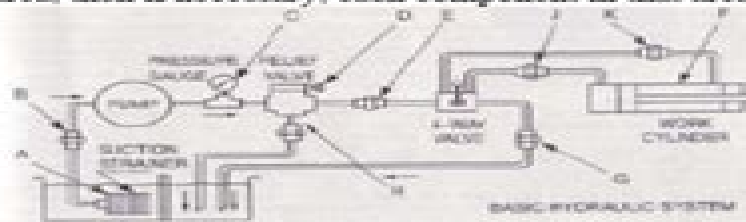


Hydraulic Troubleshooting Guide

Hydraulic Troubleshooting

Many of the failures in a hydraulic system show similar symptoms: a gradual or sudden loss of high pressure, resulting in loss of power or speed in the cylinders. In fact, the cylinders may stall under light loads or may not move at all. Often the loss of power is accompanied by an increase in pump noise, especially as the pump tries to build up pressure. Any major component (pump, relief valve, directional valve, or cylinder) could be at fault. In a sophisticated system, other components could also be at fault, but this would require the services of an experienced technician. By following an organized step-by-step testing procedure in the order given here, the problem can be traced to a general area, then if necessary, each component in that area can be tested or replaced.



STEP 1 - Pump Suction Strainer ...

Probably the trouble encountered most often is cavitation of the hydraulic pump inlet caused by restriction due to a dirt build-up on the suction strainer. This can happen on a new as well as an old system. It produces the symptoms described above: increased pump noise, loss of high pressure and/or speed. If the strainer is not located in the pump suction line it will be found immersed below the oil level in the reservoir (point A). Some operators of hydraulic equipment never give the equipment any attention or maintenance until it fails. Under these conditions, sooner or later, the suction strainer will probably become sufficiently restricted to cause a breakdown of the whole system and damage to the pump. The suction strainer should be removed for inspection and should be cleaned before re-installation. Wire mesh strainers can best be cleaned with an air hose, blowing from inside out. They can also be washed in a solvent which is compatible with the reservoir fluid. Kerosene may be used for strainers operating in petroleum base hydraulic oil. Do not use gasoline or other explosive or flammable solvents. The strainer should be cleaned even though it may not appear to be dirty. Some clogging materials cannot be seen except by close inspection. If there are holes in the mesh or if there is mechanical damage, the strainer should be replaced. When reinstalling the strainer, inspect all joints for possible air leaks, particularly at union joints (points B, E, G, H, J, and K). There must be no air leaks in the suction line. Check the reservoir oil level to be sure it covers the top of the strainer by at least 3" at minimum oil level, with all cylinders extended. If it does not cover to this depth there is danger of a vortex forming which may allow air to enter the system when the pump is running.

STEP 2 - Pump and Relief Valve ...

If cleaning the pump suction strainer does not correct the trouble, isolate the pump and

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**Alexander McLean, Roderick
Guthrie, Sridhar Seetharaman, H. Y.
Sohn**



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The Hydraulic Troubleshooting Handbook Brendan Casey, 2014 Explains the easiest way to conquer the troubleshooting process the simple 12 step procedure that will transform you into a reliable and effective troubleshooter no matter what your level of experience This is the master secret of knowing what to do and when to do it [Advances in Hydraulic and Pneumatic Drives and Control, Centrifugal Pumps, Valves, and Seals 2025](#) Jarosław Stryczek, Urszula Warzyńska, Michał Banaś, 2025-10-17 This book reports on cutting edge research and technical achievements in the field of hydraulic drives The chapters selected from contributions presented at the 21st International Scientific Technical Conference on Hydraulic and Pneumatic Drives and Control Centrifugal Pumps Valves and Seals NSHP 2025 held on October 8 10 2025 in Karpacz Poland cover a wide range of topics such as theoretical advances in hydraulics pneumatics and control fluid dynamics diagnostics and simulation and energy aspects and applications Further topics include design and performance aspects of pumps and rotary systems sealing elements and connections and new materials and their properties in improving the efficiency of hydraulic components **Flow-Induced Pulsation and Vibration in Hydroelectric Machinery** Peter Dörfler, Mirjam Sick, André Coutu, 2012-08-28 Since the 1970 s an increasing amount of specialized research has focused on the problems created by instability of internal flow in hydroelectric power plants However progress in this field is hampered by the interdisciplinary nature of the subject between fluid mechanics structural mechanics and hydraulic transients Flow induced Pulsation and Vibration in Hydroelectric Machinery provides a compact guidebook explaining the many different underlying physical mechanisms and their possible effects Typical phenomena are described to assist in the proper diagnosis of problems and various key strategies for solution are compared and considered with support from practical experience and real life examples The link between state of the art CFD computation and notorious practical problems is discussed and quantitative data is provided on normal levels of vibration and pulsation so realistic limits can be set for future projects Current projects are also addressed as the possibilities and limitations of reduced scale model tests for prediction of prototype performance are explained Engineers and project planners struggling with the practical problems will find Flow induced Pulsation and Vibration in Hydroelectric Machinery to be a comprehensive and convenient reference covering key topics and ideas across a range of relevant disciplines *Design and Development of Heavy Duty Diesel Engines* P. A. Lakshminarayanan, Avinash Kumar Agarwal, 2019-11-05 This book is intended to serve as a comprehensive reference on the design and development of diesel engines It talks about combustion and gas exchange processes with important references to emissions and fuel consumption and descriptions of the design of various parts of an engine its coolants and lubricants and emission control and optimization techniques Some of the topics covered are turbocharging and supercharging noise and vibrational control emission and combustion control and the future of heavy duty diesel engines This volume will be of interest to researchers and professionals working in this area **Ozonation of Water and Waste Water** Christiane

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