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A basic hydraulic system. 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.

Troubleshooting Hydraulic System Problems

Troubleshooting Guide & Maintenance Hints General The troubleshooting charts and maintenance hints that follow are of a general system nature but should provide an intuitive feeling for a specific system. More general information is covered in the following paragraphs. Effect and probable cause charts appear on the following pages. System Design

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Therefore, inspect the system for possible causes of aeration and cavitation. In addition to damaging seals and reducing the service life of the hydraulic fluid, high fluid temperature can cause damage to system components through inadequate lubrication as a result of excessive thinning of the oil film (low viscosity).

Symptoms of Common Hydraulic Problems and Their Root Causes

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The following troubleshooting guides cover five categories of hydraulic problems. Possible causes and remedies are listed for each type of trouble. Causes are listed in order of probability; remedies are listed adjacent to the associated cause.

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This guide gives you the tools to get maximum value from your Cat hydraulic system. Understanding the elements of hydraulic system management can help you maintain system efficiency, extend component life, and correct problems to avoid unnecessary repairs and unscheduled downtime.

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When it comes to troubleshooting low power concerns on a Cat® Hydraulic Excavator, Caterpillar Maintenance Expert Jeff Payne says look at the simple things first, such as checking your machine air...

Cat® Excavators | Low Power Troubleshooting

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death. Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintenance and repair information.

Troubleshooting

This manual covers specifications, systems operation, testing/adjusting and disassembly of the of the Caterpillar 950 Wheel Loader. It includes detailed OEM specs, illustrations and service procedures to guide the mechanic with correctly servicing, overhauling and troubleshooting the machine to the manufacturer's specifications.

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justing and disassembly of the of the Caterpillar 950 Wheel Loader. It includes detailed OEM specs, illustrations and service procedures to guide the mechanic with correctly servicing, overhauling and troubleshooting the machine to the manufacturer's specifications.

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