

Read free Caterpillar hydraulic system troubleshooting guide (PDF)

noise elevated temperatures and slow or erratic operation are all signs of problems with your system the most common causes of poor hydraulic performance are particulate or water contamination clogged filters high fluid temperature and incorrect hydraulic fluids learn how to find and solve common problems with hydraulic systems such as leaks air oil noise overheating and more follow the step by step procedures and check the specifications adjustments and components of your system

- 1 dirt in system
- 2 restricted drain
- 3 pilot pressure low
- 4 malfunctions of solenoids
- 5 distortion of valve body

- 1 drain and flush system disassemble and clean if necessary
- 2 small fittings or pipe
- 3 check pilot pressure system
- 4 check for proper source voltage and frequency remove solenoid and check fields
- 5 check mechanical electrical and or hydraulic limits and sequence devices adjust repair or replace mechanical bind not operating locate and repair bind cylinder or motor damaged repair or replace low flow see troubleshooting guide for incorrect flow to effectively diagnose a hydraulic problem use the following five steps

- 1 identify the problem most hydraulic issues can be divided into two categories pressure or volume a pressure issue is one where the pressure won't build high enough to operate the machine properly the first step in effective troubleshooting is making sure you understand what the problem is and this can involve asking quite a few questions if someone says for example the pump is vibrating really bad then you need to delve a bit deeper with questions such as how long has this been going on or when did it start hydraulics troubleshooting 101 mastering the basics youtube hydrauliac 1 66k subscribers subscribed 28 519 views 5 months ago welcome video to the hydraulics troubleshooting 101 realign coupling check condition motor worn or damaged repair or replace source symptom mechanical vibrations possible problem recommended action misaligned loose coupling realign coupling and remove any unnecessary clearances vibration of pipes tighten pipe clamps and add more clamps where necessary source symptom relief valve to effectively diagnose a hydraulic system problem or for the purposes of this article one that deals with low pressure we suggest using a troubleshooting method that includes identifying the source of the problem gathering system information adjusting verifying identifying the source of the problem troubleshooting your hydraulic systems is always challenging but there are some hints and tips that can expedite the process and help get your system functioning again identifying the problem with your hydraulics the key to accurately troubleshooting your hydraulic systems lies in correctly identifying the problem erratic cylinder operation knocking and banging sounds leaking hydraulic fluid pump seals that frequently fail usually due to a bent or misaligned rod sudden drop in pressure unusual vibration unusually high system temperature while the pump is running pumps should never exceed 180 f 82 c under normal working conditions look

reduced performance e g longer cycle times or slow operation is often an early indication of problems within the hydraulic system flow determines actuator speed and response in a hydraulic system a loss of speed therefore indicates a loss of flow inconsistent erratically moving actuators are a strong sign of entrapped air troubleshooting involves performing a diagnosis of the fluid power system before outlining the course of action that will restore the machine back to its normal operation the steps for troubleshooting hydraulic systems are highlighted below no 1 inspect the system and check the factory manual in any troubleshooting situation no matter how simple or complex the hydraulic system always start with the basics this ensures that the obvious is never overlooked in order for the obvious to be obvious the fundamental laws of hydraulics must be kept in mind learn how to identify and fix the most common causes of hydraulic system failure such as air and water contamination temperature issues fluid levels and quality and human error find out how to troubleshoot maintain and work safely with hydraulics troubleshooting hydraulics 8 steps to a successful diagnosis hystat 11 9k subscribers subscribed 323 38k views 3 years ago hydraulic system troubleshooting mobile hydraulic systems this webinar will focus on the most efficient way to troubleshooting issues with your hydraulic systems from components that make up standard hydraulic systems to troubleshooting best practices 1 oil maintenance check your hydraulic oil on a consistent schedule it needs to remain clean and free of any contaminants chapter 1 hydraulic systems troubleshooting logical methodology 13 1 1 fault detection methodology 1 2 logic fault detection procedure 1 3 general components check 1 4 noisy unit 1 5 excessively hot unit chapter 2 basic troubleshooting equipment 20 2 1 snap check pressure gauge test kit 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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check mechanical electrical and or hydraulic limits and sequence devices adjust repair or replace mechanical bind not operating locate and repair bind cylinder or motor damaged repair or replace low flow see troubleshooting guide for incorrect flow

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realign coupling check condition motor worn or damaged repair or replace source symptom mechanical vibrations possible problem recommended action misaligned loose coupling realign coupling and remove any unnecessary clearances vibration of pipes tighten pipe clamps and add more clamps where necessary source symptom relief valve

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to effectively diagnose a hydraulic system problem or for the purposes of this article one that deals with low pressure we suggest using a troubleshooting method that includes identifying the source of the problem gathering system information adjusting verifying identifying the source of the problem

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troubleshooting your hydraulic systems is always challenging but there are some hints and tips that can expedite the process and help get your system functioning again identifying the problem with your hydraulics the key to accurately troubleshooting your hydraulic systems lies in correctly identifying the problem

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in any troubleshooting situation no matter how simple or complex the hydraulic system always start with the basics this ensures that the obvious is never overlooked in order for the obvious to be obvious the fundamental laws of hydraulics must be kept in mind

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this webinar will focus on the most efficient way to troubleshooting issues with your hydraulic systems from components that make up standard hydraulic systems to troubleshooting best practices

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1 oil maintenance check your hydraulic oil on a consistent schedule it needs to remain clean and free of any contaminants

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