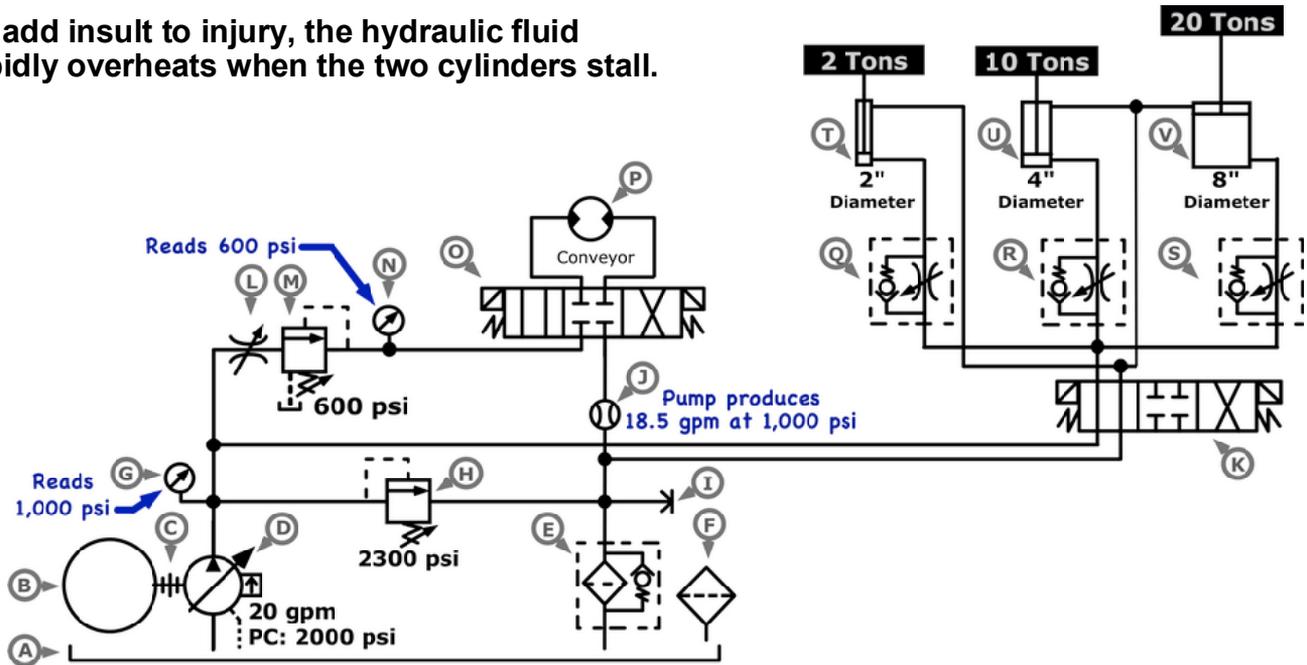


THE STALLING CYLINDERS SITUATION

All three hydraulic cylinders on a machine extend when operated without any load.

But under load, the cylinders lifting 2 ton and 10 ton loads stall, even though the cylinder lifting a 20 ton load completely extends.

To add insult to injury, the hydraulic fluid rapidly overheats when the two cylinders stall.



What's the most likely cause of the situation?

A lot of companies have unnecessary downtime and ongoing hydraulic problems because their maintenance personnel haven't received training in:

- how to read hydraulic schematics;
- how hydraulic components and hydraulic circuits function; and
- what it takes to prevent hydraulic problems.

We provide training that helps people do a better job of hydraulic troubleshooting, prevent hydraulic problems, and get the best possible performance from hydraulic equipment. Training that will enable your personnel to:

- 1) read and understand hydraulic schematics;
- 2) determine the most likely adjustment to make to this equipment so all 3 cylinders extend under load;
- 3) understand why overheating is bad for hydraulics;
- 4) pinpoint 5 places in this circuit that generate heat during normal operation;
- 5) explain why the cylinder lifting a 20 ton load extended as the cylinders lifting 2 ton and 10 ton loads stalled;
- 6) tell why a load sensing pump should have been used in this circuit;
- 7) see why it might be a good idea to consider using a separate pump to drive the conveyor.

If your personnel can do these 7 things, then you probably don't need our Basic Hydraulic training. But if you're like most companies, an investment in our training will pay for itself by reducing downtime, extending hydraulic component life, and making your hydraulic equipment operate more effectively.

Please call Rob Fish at (708) 328-6121 to discuss scheduling a 1-day, 2-day, or 3-day training session at your facility.