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The problem with the mechanical seal blowing out is a direct result of a motor lip seal failure. This motor lip seal failure allows hydraulic pressure from the power source to escape the hydraulic motor and exert itself on the mechanical seal, resulting in the stationary seat being pushed out and thus failing.

The most typical causes for motor lip seal failure are:

- 1. Too much back pressure in the hydraulic motor resulting from
 - a. Incorrectly connected hydraulic hoses obstructing the clear path of fluid back to tank
 - b. Hydraulic inputs too great for the ratings of the motor
 - c. The disconnection of the return side hydraulic line while the pressure line is still on and active
 - d. Connecting an active pressure line before the return line is connected.
 - e. Running the pump in reverse
 - f. The return run distance is more than 150 feet without up-sizing the return hose to allow for a clear oil path back to tank.
 - g. The hydraulic system should be open (center) as opposed to closed....closed center will cause hydraulic shock which damages the lip seal

To combat or correct any issue above not involving incorrectly attached hoses or hoses too small, we suggest installing a flow control (if inputs are too great for the motor) and/or a check valve (if running in reverse is a possibility).

So, please have a look at your hydraulic system as it relates to the above guidelines and let us know what you find. We can then come up with the best resolution to this problem.