

PUMP SUPPORT TROUBLESHOOTING THE PUMP

PUMP PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
No liquid delivered	Pump is not primed.	Check the priming system.
	Speed too low.	Check the engine is running at the required power speed.
	sum of suction and discharge head greater than rated head of pump.	Check the total head requirements against pump performance curve.
	Impeller completely plugged.	Clean any debris out of the impeller.
	Suction piping or strainer plugged and/or leaking air.	Clean any debris out of the suction hose and strainer. Repair any leaks in suction hose.
	Worn impeller and/or wear rings.	Inspect and replace as necessary.
Not enough liquid delivered or not enough pressure	Worn mechanical seal.	Inspect and replace as necessary
	Air leaks in suction or stuffing box.	Inspect and repair any leaks
	Speed too low	Check the engine is running at the required power/speed
	Sum of suction and discharge head greater than rated head of pump.	Check the total head requirements against pump performance curve.
	Impeller, suction hose and/or strainer partially plugged.	Clean any debris out of the impeller and suction hose.
	Mechanical defects	Inspect and if necessary replace the following: shaft, bearings, wear rings, impeller, and coupling.
Not enough liquid delivered or not enough pressure continued	End of suction hose not immersed deep enough.	Add more hose to the suction line.
	Air entering suction pipe.	Make sure the end of the suction hose is deep enough in the water to avoid a vortex forming.
Pump works for a while then quits	Leak in the suction hose	Repair any leaks in suction hose
	Sum of suction and discharge head greater than rated head of pump	Check the total head requirements against pump performance curve.
	Air or gases in liquid.	Check that the priming system is functioning and that the pump is not cavitating.
	Speed too high.	Reduce engine speed/power.
	Head lower than rating; pumps too much liquid.	Throttle the discharge of pump with a butterfly valve.
	Rotating element binds	Inspect and replace the following as necessary: shaft, bearings, wear rings, impeller, and coupling.
	Wearing rings worn.	Inspect and replace wear rings as necessary

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Pump noise and vibration	Misalignment between the engine and pump end.	Check coupling.
	Engine and/or pump end are loose.	Check engine and pump end mountings, tighten mounting bolts if necessary.
	Impeller partially plugged.	Clean any debris out of the impeller.
	Mechanical defects.	Inspect and if necessary replace the following: shaft, bearings, wear rings, impeller, and coupling.
	Suction or discharge pipe not anchored.	Secure the suction and discharge piping as necessary.
	Pump is cavitating.	Suction lift is too great for pump.



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