

## LNC/SEC BORE SEALING CYLINDER

SYMPTOM	CAUSE	SOLUTION
Movement is jerky / Slow lift off	Air in system	Bleed cylinder (see bleed procedure) Check for loose connections
	Low oil level	Add oil and confirm minimum 100mm level above tank outlet at full tip
Will not tip / Stops at top of a stage	Overloaded	Check load Check PTO is engaged Cab control may be leaking air
	Pressure too low	Check pressure - increase to 120bar max
	Loaded to the front	Reposition load evenly in the body
	Run out of oil	Check oil level as above
Out of sequence during tipping / lowering	Bent tubes	Look for scored/bent tubes and replace
	Air in system Brackets seized	Bleed cylinder Dismantle and lubricate
	Misaligned cylinder	Check geometry
Ram nut leaks	Cracked ram nut	Sideload problem
		Replace ram nut - Check base tube roundness
	Base ovality	Replace cylinder if damaged
Main seal leaks	Worn seals	Replace seals
	Scored tubes	Replace tubes
	Infrequent use of cylinder	Extend cylinder to full stroke and hold on full pressure for a few seconds. Repeat again if it does not resolve oil leaks. If no improvement replace seals.
	Dirty oil	Check oil condition - should be better than ISO4406 class 19/16. Replace if necessary

Oil escaping through filler cap	Cylinder requires bleeding	Too much or too little oil in tank, Operator error, tipping on uneven ground. Carry out bleed procedure, add/remove oil if necessary.
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POSSIBLE OPERATOR PROBLEMS

4th November 2011