

Tested by Countdown Performance Certificate No

Client Date

Reason for test

Vacuum Recorder Brand..... Model

Connection for vacuum recording

Last calibration check Date.....

Channel 1 35 kPa 45 kPa 55 kPa

Channel 2 35 kPa 45 kPa 55 kPa

Extra test gauge 35 kPa 45 kPa 55 kPa

(if used) (not more than ± 0.5 kPa measured against reference mercury manometer)

T-piece kPa/sec

NeedleG kPa/sec

Other kPa/sec

PERFORMANCE TEST SUMMARY

	Yes	Border-line	No	Comments
Compatible cluster components have been selected (liners fit shells and claw nipples)				
Cluster air admission is OK				
Cluster positioning and weight balance is OK				
Vacuum levels and differences meet standards and guidelines				
Mean claw vacuum meets the guidelines				
Vacuum stability in milking line and receiver meets the guidelines				

RECOMMENDATIONS

Considering the results of both the Dry Test and these Performance Tests:

No further work or changes are necessary

Further tests or milking time observations are required

Please specify

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The following changes are recommended

Please specify

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Clusters Not during milking

No. clusters

Claw type.....

Parallel 80-90°

Attach rear

H'bone, attach side

Cluster position in relation to the cows' udders

Good / Fair / Poor

Claw nipple size..... mm

Air vent size..... mm

S/off valve leaks..... L/min

Air adm. range..... L/min

Cluster air leaks..... L/min

Shell dimensions.....mm

(Length x Outer Diameter x Hole)

Liner brand..... Model no.....

Short milk tube bore.....mm

Liner Condition

Age of liner months

Number of cow milkings

Good Fair Poor

Mouthpiece distortion

Barrel shape

Abrasion on outside wall of liner No Yes

Rub marks on shell No Yes

Liner length unstretched (mm) Current New

Liner stretch (%) Current New

Ineffective length mm Effective length..... mm

Claw vacuum

Unit	Average claw vacuum (kPa)		Pass/Fail guideline
	During milking Avg at 90 - 120sec	Flow Simulator At 5 L/min	
1			Mean claw vacuum within range 36-42 kPa at 5 L/min with simulator; or 90 - 120 seconds after cups on
2			
3			
4			
5			
6			
7			
8			
9			
10			
Mean			Pass/Fail

Vacuum levels and differences Not during milking

Milkline height High Mid Low

Vacuum reading	Guidelines	Pass/Fail
Working vacuum (WV) kPa at central test point (ctp)	High line 47 - 50 kPa Mid line 45 - 48 kPa Low line 42 - 46 kPa	
Unit fall off test Level Drop	Not more than 2 kPa with one unit open (OR with two units open when there are more than 32 units in the shed)	
1 unitkPakPa		
2 unitskPakPa		
Regulator undershoot Level Drop	Not more than 2 kPa below min vacuum with one (or two) units open	
1 unitkPakPa		
2 unitskPakPa		
Regulator overshoot Level Drop	Not more than 2 kPa above max vacuum with no units open	
1 unitkPakPa		
2 unitskPakPa		
Vacuum change at reg or sensing point	A change of 1.3 kPa or more at regulator when receiver vacuum is dropped by 2kPa	
Reg vac with ctp at WV kPa		
Reg vac with ctp at (WV-2)kPa		
Change at regulatorkPa		

Vacuum stability in milkline and receiver

During milking

	Vacuum reading (kPa)		Not more than a 2 kPa transient vacuum drop for 95% of the total milking time	
	Avg	Min	Drop Avg - Min	Pass/Fail
Milkline vacuum level with all or most units connected				
Receiver vacuum level during cluster changeover	1.			
	2.			

Technician

Date.....

Client.....