

Next liner change due

IMQCS MILKING MACHINE TEST REPORT

Name		Address		
		Date	Plant Type	
No. of units	Tester's Signature		IMQCS Reg. no.	

Va	cuum and	l Airflow	Tests .				
1. V	Working vacuum at Vm; machine in the milking				6.	Airflow with ancillary equipment connected to milkline added, machin	e
	oosition (liners plug		-	kPa		in the milking position (liners plugged), test at A2 and Vr or Vp	l/min
_	Vorking vacuum rec	-	he machine			Milking system ancillary equipment usage (5-6)	l/min
	n the milking positio			kPa	7.	Airflow with pulsators added; machine in the milking position	
	Vorking vacuum at \					(liners plugged), test at A2 and Vr or Vp	l/min
	nilking position (line			kPa		Pulsation usage (6-7)	l/min
	Working vacuum at Vp; machine in the milking position (liners plugged) 1c. Vacuum in the milking system at Vm; machine			8.	Airflow with ancillary equipment connected to airline added; machine		
			kPa		in the milking position (liners plugged), test at A2 and Vr or Vp	l/min	
-					Airline ancillary equipment usage (7-8)	l/min	
	ready for milking		kPa	9.	. Manual reserve; machine in the milking position (liners plugged),		
	1d. Plant gauge vacuum level; machine ready for milking			kPa		regulator(s) plugged, drop vacuum 2kPa below no. 1,	
	1e. Vacuum near plant vacuum gauge at Vr; machine				test at A1 and Vm	l/min	
				kPa	10	0. Effective reserve; machine in the milking position	
	ready for milking		kPa		(liners plugged), add regulator(s), drop vacuum 2kPa below		
	Plant vacuum gauge accuracy (1d-1e)		l/mir	,	no. 1, test at A1 and Vm	l/min	
			l/mir		Regulation loss (9-10)	l/min	
	2a. Pump capacity at 50kPa; AFM direct to pump, test gauge at Vp			1	Required effective reserve	l/min	
	2b. Pump speed			rpm		Required cleaning reserve	l/min
	Estimated pump capacity required			l/mir	¹ 11	1. Regulation sensitivity (1c-1)	kPa
	3. Airflow with vacuum system; machine in the milking						kPa
-	position (liners plugged), airline only added, regulator(s)			1/ •			kPa
-	olugged, test at A2 a	nd Vr or Vp		l/mir		4. Regulation undershoot	kPa
	Airline leakage (2-3)		l/mir		5. Regulation overshoot	kPa	
	4. Airflow with milk system added; machine in the milking position					6. Airflow without regulator(s); machine in the milking position	
((liners plugged), close claw air admission; test at A2 and Vr or Vp			l/mir		(liners plugged), regulator(s) plugged, drop vacuum	
Ν	Milking system leakage (3-4)			l/mir		2kPa below 1a, test at A1 and Vr	l/min
5. Airflow with air admission at claws open; machine in the milking				17	7. Airflow with regulator(s); machine in the milking position		
ŗ	position (liners plugged), test at A2 and Vr or Vp			l/mir	1	(liners plugged), add regulator(s), drop vacuum 2kPa	
(Claw air admission (4-5)		l/mir	า	below 1a, test at A1 and Vr	l/min	
						Regulator leakage (16-17)	l/min
Pu	lsation Tes	its		Fau	lts		
Rate	c/min	Max	Min				
Ratio	"a+b" % or ms	Max					
"a" v	alue % or ms	Max					
"b" v	alue % or ms	Max	Min				
"c" va	alue % or ms	Max	Min				
"d" v	alue % or ms	Max	Min				
Pulsa	ntion graphs attac	hed: ves/no		Pos	omn	mendations	
		•				iiciiuati0iis	
1 2 -							
	ers						
ivlake	and identification	110.					

N.B. Items in Bold Type must always be filled in. Tests 13, 14, and 15 may be completed instead of test number 10 for machines with 14 or more units. It is recommended that milking machines be tested at least twice per year.

IMQCS - www.milkquality.ie Revision 1.