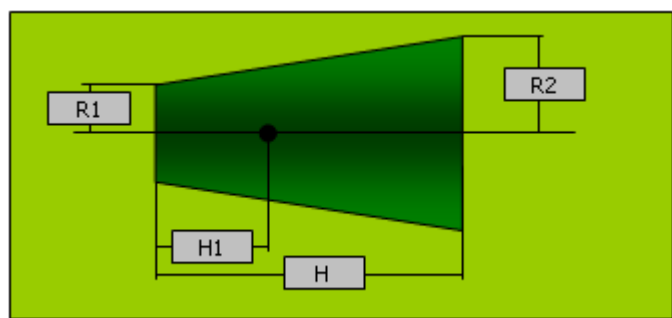


Balancing date:2014-11-13 08:14:02 AM

## BALANCING REPORT

Rotor data	
Rotor type: Wide symetric/asymetric rotor	Balacing speed: 1632 RPM
Rotor mass: 2,0 Kg	Service speed: 1630 RPM
Correction radius R1: 45 mm	Correction radius R2: 45 mm

Balance quality grade G 40



H = 160 mm  
H1 = 80 mm

Permissible unbalance (according to ISO1940/1)		
Parameter	LEFT	RIGHT
Displacement	0,117 mm	0,117 mm
Residual unbalance	234 gmm	234 gmm
Residual mass	5,21 gr	5,21 gr

Initial unbalance		
Parameter	LEFT	RIGHT
Displacement	0,186 mm	0,259 mm
Initial unbalance	372 gmm	517 gmm
Initial mass	8,26 gr	11,5 gr

Final unbalance		
Parameter	LEFT	RIGHT
Displacement	0,211 mm	0,522 mm
Residual unbalance	421 gmm	1,0 Kgmm
Residual mass	9,36 gr	23,2 gr
Tolerance	not OK	not OK

Vibration (x1RPM)			
Vibration LEFT		Vibration RIGHT	
Initial	3,19 mm/s RMS @ 290,1°	Initial	2,92 mm/s RMS @ 291,1°
Final	6,10 mm/s RMS @ 284,2°	Final	5,94 mm/s RMS @ 281,9°

Balancing Matrix	
Matrix element	Value
a11	0,181402
b11	91,187930
a12	0,233665
b12	142,084500
a21	0,210535
b21	106,662200
a22	0,250608
b22	136,029700

Measurement list		
NO	LEFT	RIGHT
1	3,19 mm/s RMS @ 290,1°	2,92 mm/s RMS @ 291,1°
2	4,38 mm/s RMS @ 228,9°	4,27 mm/s RMS @ 229,6°
3	6,10 mm/s RMS @ 284,2°	5,94 mm/s RMS @ 281,9°

Trial runs			
RUN	LEFT	RIGHT	MASS
Initial:	3,19 mm/s RMS @ 290,1°	2,92 mm/s RMS @ 291,1°	
Weight left:	2,52 mm/s RMS @ 295,5°	2,08 mm/s RMS @ 292,9°	4gr
Weight right:	2,45 mm/s RMS @ 278,5°	2,05 mm/s RMS @ 279,2°	4gr
Total improvement: -97%			

Comments

Operator,

Check by,