

COMPONENT / PRODUCT QC - INSPECTION FORM

Sample Submission No/ Date : 11.06.24
Department : R&D
Part No : RND/PMD/W6703
Part Description : New Topaz wet Grinder
Product Name : Wet Grinder 2.0litre
Model No :
Sample Submission Number : T₁ ✓
No Of Samples : 1 NO
Type of the Test Required :
Temperature Rise &
Performance Test.
Reason For Test :
New wet Grinder Sample
(Shri Vaani Corporation)

ALTERNATE SOURCE ✓
ALTERNATE MATERIAL ✓
REGULAR TEST ✓
DESIGN CHANGE

Any Other Point :
New Topaz wet Grinder 2.0litre

Raised By : B. U. S. S. S. 11/06/24

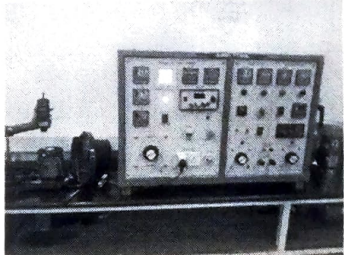
Verified By : A. S. S.

Approved By :
NOTE : T0 - First Sample, T1 - Second Sample
Received By : S. S. S.

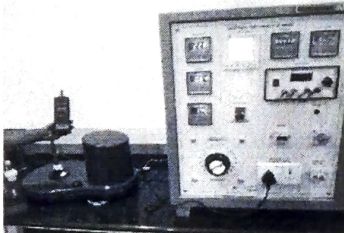
TEST REPORT

Product:	Tabletop Grinder	Location:	DQ lab
Model:	Topaz	Report No:	05/2024-05
Part Description	Full Packaging unit	Date:	21 Jun 2024
No of Sample:	1 No	Ratted Watts:	150W
Reason for test:	Modified Model Sample T1 Validation Purpose.		


Motor Details

S. No	Motor			Test Image
	Amps	Watts	RPM	
1	0.62A	146W	1471	

No Load Data

S. No	Without Drum			Test Image
	Amps	Watts	RPM	
1	0.65A	151W	154	

Load Data

S. No	With Drum			Test Image
	Amps	Watts	RPM	
1	0.69A	160W	152	



TEST REPORT

Product:	Tabletop Grinder	Location:	DQ lab
Model:	Topaz	Report No:	05/2024-05
Part Description	Full Packaging unit	Date:	21 Jun 2024
No of Sample:	1 No	Rated Watts:	150W
Reason for test:	Modified Model Sample T1 Validation Purpose.		

PERFORMANCE TEST

DFU quantities of Rice are tested for 1 cycle at rated voltage without any abnormality.

Pass Criteria: No trip & abnormality observed, and Max allowable rated time limit is 30 minutes of each recipe.

Sample - A				
Tough Ingredient Performance	Dhall-200g	Rice – 1Kg	Dhall-250g	Rice – 1250g
Average Watts in W	164W	189W	171W	195W
Average Amps in A	0.74A	0.85A	0.79A	0.88A
Test cycles	2	2	2	2
Operating time in seconds	20min	20min	20min	20min
TOP trip Status	No	No	No	No
(Dall-710-micron & Rice-500-micron) Sieve / Residue	5g	7g	5g	9g
Performance level	OK	OK	OK	OK

TEMPERATURE RISE TEST:

1 cycle = 30 min ON, 3 min OFF and 30 min ON for X cycles (X cycles - Based on saturation of motor coil temperature) tested @ 1.1 & 0.9 times of Rated voltage.

Test Voltage :207V ,230V&253V

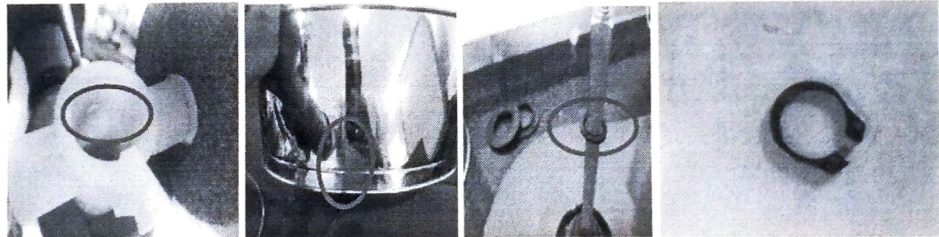
Sample – 03A			
Cycle Timing:30 Min on 3 Min off and 30 Min on, for X cycles	207V	230V	253V
Average watts in W	168W	186W	215W
Average Amps in A	0.75A	0.81A	0.84A
Temp rise at Enclosure temp in °C	42	47	48
Temp rise at Plug & chord temp in °C	30	31	32
Temp rise at Switch Knob temp in °C	38	39	39
Temp rise at Ingredient temp in °C	35	34	39
Temp rise at Stator Core temp in °C	76	92	111
Temp rise at Stator Coil temp in °C	73	89	108
Temp rise at Motor Pulley temp in °C	42	48	55
Temp rise at Belt temp in °C	44	47	53
Temp rise at Motor Fan temp in °C	54	61	62
Temp rise at Capacitor temp in °C	44	47	48
Temp rise at Shaft temp in °C	36	39	40
Room temp in °C	28	28	28
Result	Ok	Ok	Ok

TEST REPORT

Product:	Tabletop Grinder	Location:	DQ lab
Model:	Topaz	Report No:	05/2024-05
Part Description	Full Packaging unit	Date:	21 Jun 2024
No of Sample:	1 No	Rated Watts:	150W
Reason for test:	Modified Model Sample T1 Validation Purpose.		

Customer Abuse Test	
Cycle Timing: 60 Min on and Maintained 200W	230V
Average watts in W	200W to 210W
Average Amps in A	0.78A to 0.82A
Average RPM	144
Temp rise at Enclosure temp in °C	48
Temp rise at Plug & chord temp in °C	32
Temp rise at Top Casting temp in °C	98
Temp rise at Top Winding temp in °C	92
Temp rise at Stator Core temp in °C	97
Temp rise at Bottom Casting temp in °C	104
Temp rise at Bottom Winding temp in °C	92
Room temp in °C	30
Result	Ok

Overall Observation:



1. Wiper Thread Out 2. Drum Weld mark 3. Washer gap 4. Circlip Needed



WhatsApp Video
2024-05-24 at 2.21.1

 Tested By:	 Verified By:	 Approved By:
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