

## SHRIRAM PISTONS & RINGS LTD.

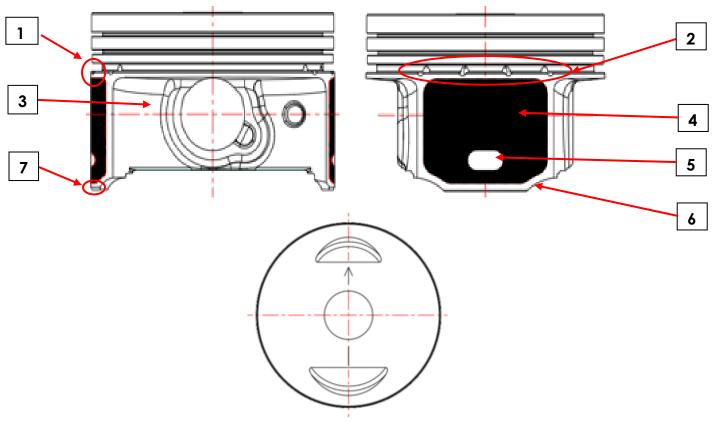
MD: TS: 01/APR'24 INTRODUCTION CIRCULAR - TVS STAR CITY+/ SPORT/ RADEON BS VI-PISTON ASSEMBLY

USHA is pleased to launch 'TVS STAR CITY+/ SPORT/ RADEON 110cc BS VI' piston assembly in its aftermarket bi-wheeler product range.



This piston assembly has following special features: -

## PISTON:-



Unique features of USHA 'TVS STAR CITY+/ SPORT/ RADEON BS VI' piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER			
1)	<b>CHAMFER AT BOTTOM OF OIL RING GROOVE:</b> An all-round chamfer is provided just below the oil ring groove area.	<ul> <li>Provides all time lubrication to piston skirt</li> <li>No piston seizure in extreme limits of normal working conditions</li> </ul>			
2)	HOLES IN OIL RING GROOVE AREA: 04 nos. of holes are provided in the oil ring groove on either side of piston skirt, half in groove & half in skirt.	Faster drainage of excess oil			
3)	AS CAST RELIEF IN PIN BORE AREA: As cast relief in pin bore area helps in faster drainage of oil towards sump & also avoids chances of seizure on minor axis.	<ul><li>Low oil consumption</li><li>Longer life</li></ul>			
4)	'Nano-friKS COATING' ON PISTON SKIRT:	<ul> <li>Helps in initial lubrication &amp; seizure free operation</li> <li>Better wear resistance</li> <li>Reduces engine noise</li> </ul>			
5)	MEASURING POINTS ON PISTON SKIRT:	<ul> <li>Provided for easy diameter verification</li> </ul>			
6)	<b>SLIPPER DESIGN:</b> Slipper design helps in reducing piston weight.	<ul><li>Improves fuel efficiency</li><li>Low noise during engine working</li></ul>			
7)	<b>SCRAPPING CHAMFER:</b> A smooth chamfer is provided at the bottom end of the piston skirt.	<ul> <li>Helps in regulating oil supply, reduces skirt wear &amp; hence longer life</li> </ul>			

TECHNICAL DATA – 'TVS STAR CITY+/ SPORT/ RADEON BS VI' PISTON								
		USHA CODE→ NCS91						
Nominal Bore Diameter	mm	53.50						
Piston Diameter	STD Size mm	53.457						
Recommended Piston-Liner Clearance	mm	0.043						
Compression Height	mm	19.50						
Total Height	mm	34.00						
Gudgeon Pin Length X OD	mm	33.20 X 14.0						

## PISTON RINGS:-

USHA 'TVS STAR CITY+/ SPORT/ RADEON BS VI' piston is supplied with a unique '**3S VENT**' ring set for low oil & fuel consumption. The technical details of '3S VENT' ring set are as under:

TECHNICAL DATA – 'TVS STAR CITY+/ SPORT/ RADEON BS VI' – '3S VENT' RINGS									
D'in a	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface	Crease Constinue			
Ring			(mm)	(Thou)	Treatment	Cross Section			
Тор	Steel Inside Bevel (HPIBGN)	0.80	0.10- 0.25	04-10	Gas Nitriding				
Second	Steel Taper (HPCRT)	0.80	0.20- 0.35	08-14	Chrome Plating/ Parkerising				
Oil	RIKVENT	1.50	0.10- 0.60 (Rails)	04-24	Chrome Plating on Rails/ Parkerising				

Above features make USHA '**TVS STAR CITY+/ SPORT/ RADEON 110cc BS VI**' piston assembly unique, produced to give better performance & longer life.



Technical Product News is an exclusive update of product & information from Shriram Pistons & Rings Ltd., 3rd Floor, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110001 Tel: 011-46451100, 23315941, Email: tss@shrirampistons.com, Website: www.shrirampistons.com