



SHRIRAM PISTONS & RINGS LTD.

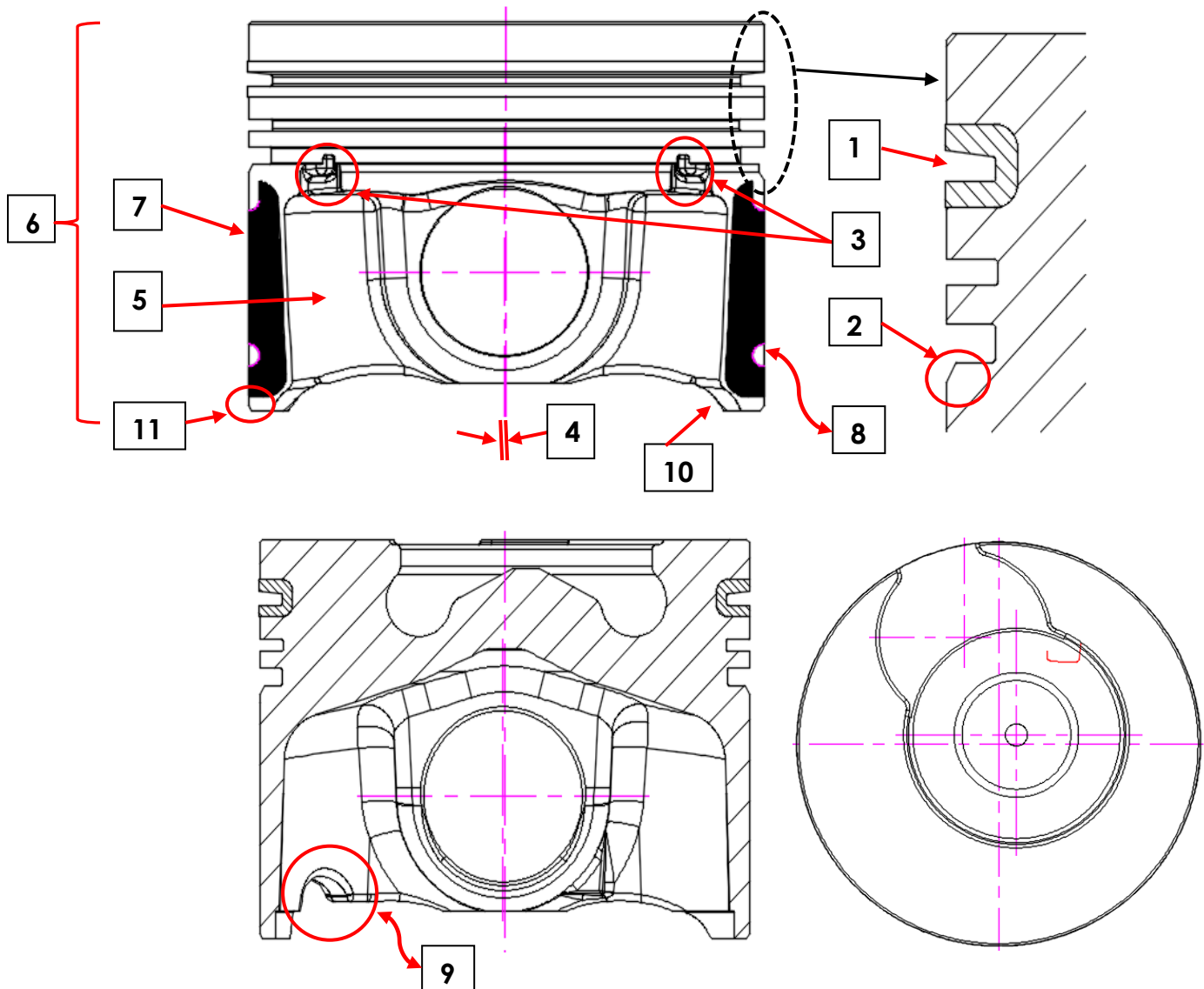
MD: TS: 08/JUL'24 INTRODUCTION CIRCULAR – MAHINDRA JEETO (D) BS IV – PISTON SET

USHA is pleased to launch Mahindra Jeeto Diesel BS IV piston set in its aftermarket SCV product range.



This piston set has following special features: -

PISTON:-



Unique features of USHA '**Mahindra Jeeto (D) BS IV**' piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	<p>HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP): Top groove of this piston is made of high nickel wear resistant ring carrier insert which is manufactured using latest centrifugal casting technology.</p> <p>HALF KEYSTONE TOP RING GROOVE GEOMETRY: Upper flank of top ring groove is having keystone geometry which helps in squeezing out excess oil from inside the groove preventing carbon deposition & sludge formation. Bottom flank is kept flat which enables better seating of ring on groove.</p>	<ul style="list-style-type: none"> • Longer life of piston due to negligible wear of top groove • Lesser blow-by
2)	<p>CHAMFER AT BOTTOM OF OIL RING GROOVE: This piston has an all-round chamfer just below the oil ring groove area.</p>	<ul style="list-style-type: none"> • Provides all time lubrication to piston skirt • No piston seizure in extreme limits of normal working conditions
3)	<p>QUICK OIL RETURN SLOTS (QORS): Two nos. of Quick Oil Return Slots (QORS) are provided on either side of piston above the pin bore, half in groove & half in window.</p>	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
4)	<p>PISTON - PIN BORE OFFSET: Piston is provided with piston pin bore offset to avoid piston slap. Piston pin bore offset means that the centre line of piston is slightly offset from the centre line of pin bore. Due to this offset, piston tilts at TDC & BDC smoothly & prevents slapping with cylinder surface.</p>	<ul style="list-style-type: none"> • Reduced engine noise
5)	<p>AS CAST CONVERGENT WINDOW: This not only gives more space for oil drainage but the unique convergent type design also provides more bearing area to piston skirt, which helps in guiding piston rings' movement.</p>	<ul style="list-style-type: none"> • Faster oil drainage, hence low oil consumption • Seizure on minor axis is avoided, hence longer piston life
6)	<p>PISTON SURFACE COMPLETELY BONDERISED:</p>	<ul style="list-style-type: none"> • Bonderising helps in preventing oxidation of piston • Also provides porous surface for oil retention, thereby reducing wear
7)	<p>'Nano-friKS COATING' ON PISTON SKIRT:</p>	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance • Reduces engine noise

8)	MEASURING POINTS ON PISTON SKIRT:	<ul style="list-style-type: none"> • Provided for easy diameter verification
9)	SLOT FOR PISTON COOLING NOZZLE (PCN) JET: Provides room for oil cooling jet.	<ul style="list-style-type: none"> • Helps in directing oil flow underneath piston combustion cavity & results in faster dissipation of heat
10)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> • Improves fuel efficiency • Low noise during engine working
11)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of the piston skirt.	<ul style="list-style-type: none"> • Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'MAHINDRA JEETO (D) BS IV' PISTON	
USHA CODE → C42	
Nominal Bore Diameter	93.00
Piston Diameter	92.91
Recommended Piston-Liner Clearance	0.09
Compression Height	45.00
Total Height	70.00
Gudgeon Pin Length X OD	70.00 X 30.00
All dimensions in 'mm'	

Above features make USHA '**Mahindra Jeeto (D) BS IV**' piston set unique, produced to give better performance & longer life.



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