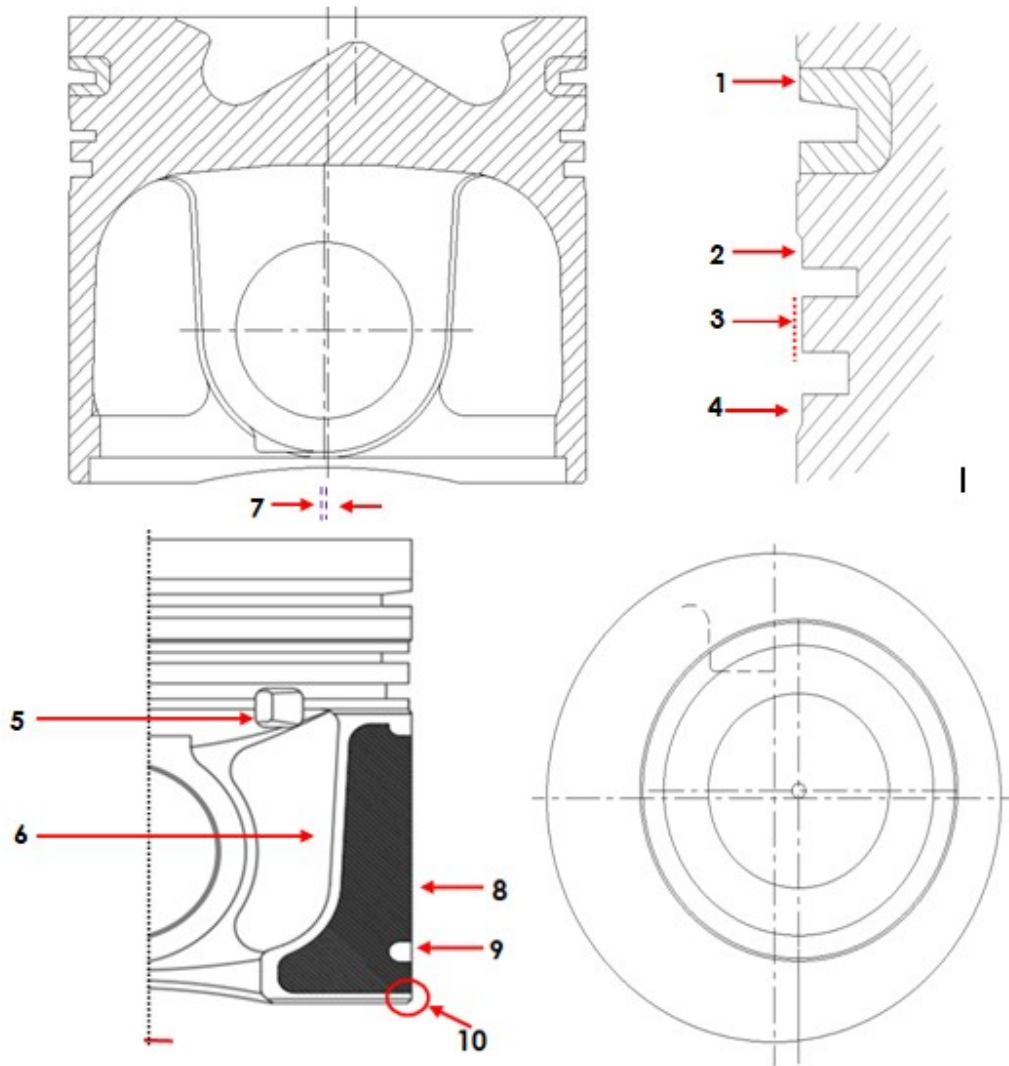


## TECHNICAL BULLETIN- EICHER 483 TC BS III MODIFIED PISTON SET

USHA is pleased to introduce Eicher 483 TC BS III Modified piston set in our LCV product range.

USHA Eicher 483 TC BS III Modified piston set has following special features:

### PISTON:-



Sl. no.	Special Features	Benefits to Customer
<b>1</b>	<b>HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP):</b> Top groove of this piston is made of high nickel wear resistant ring carrier insert, which is manufactured using latest centrifugal casting technology.	<ul style="list-style-type: none"> <li>• Longer life of piston due to negligible wear of top groove.</li> </ul>
<b>2</b>	<b>STEP CUT IN FIRST RING LAND:</b> First ring land is provided with a step cut to provide better seating & stability to top compression ring.	<ul style="list-style-type: none"> <li>• Helps in reducing blow-by &amp; reducing oil consumption.</li> </ul>

3	<b>CUT BACK IN SECOND RING LAND:</b> Land is slightly undersize to provide more space for the oil scrapped by the second ring.	<ul style="list-style-type: none"> <li>Helps in reducing oil consumption.</li> </ul>
4	<b>'J' CUT:</b> This piston has been provided with a unique 'J' cut below the oil ring groove area.	<ul style="list-style-type: none"> <li>'J' cut provides all time lubrication to skirt.</li> <li>No piston seizure in extreme limits of normal working conditions.</li> </ul>
5	<b>QUICK OIL RETURN SLOTS (QORS):</b> Two nos. of Quick Oil Return Slots (QORS) are provided on each side of the piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> <li>Quick drainage of oil and hence lower oil consumption.</li> </ul>
6	<b>AS CAST HYDRODYNAMIC WINDOW:</b> New hydrodynamic 'As Cast' window designed by our collaborator, not only provides more space for oil drainage, but also provides more skirt area for piston ring guidance.	<ul style="list-style-type: none"> <li>Faster drainage of oil helps in reducing oil consumption.</li> <li>Better guidance to rings.</li> </ul>
7	<b>PISTON- PIN BORE OFFSET:</b> Pistons are provided with a 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 liner.	<ul style="list-style-type: none"> <li>Reduced engine noise.</li> </ul>
8	<b>SKIRT COATED WITH NEW 'D-10' COATING</b>	<ul style="list-style-type: none"> <li><b>D-10</b> permanent coating provides better wear resistance &amp; helps in initial lubrication to avoid piston scuffing/seizure etc.</li> </ul>
9	<b>MEASURING POINTS ON THE SKIRT:</b> Two points on both sides of the skirt.	<ul style="list-style-type: none"> <li>Provided for easy diameter verification.</li> </ul>
10	<b>BOTTOM CHAMFER:</b> A smooth chamfer is provided at the bottom end of piston which provides better hydrodynamic oil film.	<ul style="list-style-type: none"> <li>Helps in reducing skirt wear, regulates oil supply and hence longer life.</li> </ul>

#### TECHNICAL DATA- EICHER 483 BS III MODIFIED PISTON

		USHA CODE→ L29
Nominal Bore Diameter	mm	100.00
Piston Diameter	STD Size mm	99.87
Recommended Piston-Liner Clearance	mm	0.130
Compression Height	mm	60.59
Total Height	mm	90.09
Piston Pin- Pin Bore Clearance	mm	+0.007 to +0.019 (Clearance Fit)

#### PISTON RINGS:-

This piston is designed to match with our existing USHA Eicher 683/483 "CPDVM" ring set for low oil consumption & blow-by.