

Unique features of USHA 'Maruti Super Carry Diesel' piston are as follows: -

SL. NO.	SPECIAL FEATURE	BENEFITS TO CUSTOMER
1)	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.	<ul style="list-style-type: none"> • Longer life of piston due to negligible wear of top groove
2)	CUT BACK IN 2ND RING LAND: This piston is provided with a cut back in second ring land for better seating, stability & functioning of intermediate ring.	<ul style="list-style-type: none"> • Helps in controlling blow-by & reducing oil consumption
3)	'J' CUT: A unique 'J' shaped cut is provided just below the oil ring groove area.	<ul style="list-style-type: none"> • Provides all time lubrication to piston skirt • No piston seizure in extreme limits of normal working conditions
4)	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.	<ul style="list-style-type: none"> • Quick drainage of oil, hence low oil consumption
5)	PISTON - PIN BORE OFFSET: Piston is 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, that prevents slapping with liner.	<ul style="list-style-type: none"> • Reduced engine noise
6)	AS CAST HYDRODYNAMIC WINDOW: 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"> • Faster oil drainage, hence low oil consumption
7)	PISTON SURFACE COMPLETELY BONDERISED:	<ul style="list-style-type: none"> • Bonderising helps in preventing oxidation of piston • Also provides porous surface for oil retention, thereby reducing wear
8)	'D-10 COATING' ON PISTON SKIRT: USHA Maruti Super Carry Diesel piston is provided with 'D-10' coating on its skirt.	<ul style="list-style-type: none"> • Helps in initial lubrication & seizure free operation • Better wear resistance & reduced engine noise
9)	MEASURING POINTS ON PISTON SKIRT:	<ul style="list-style-type: none"> • Provided for easy diameter verification

10)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> Improved fuel efficiency Low noise during engine working
11)	SCRAPPING CHAMFER: A smooth chamfer is provided at the bottom end of piston skirt.	<ul style="list-style-type: none"> Helps in regulating oil supply, reduces skirt wear & hence longer life

TECHNICAL DATA – 'MARUTI SUPER CARRY DIESEL' PISTON		
		USHA CODE → C34
Nominal Bore Diameter	mm	77.00
Piston Diameter	STD Size mm	76.955
Recommended Piston-Liner Clearance	mm	0.045
Compression Height	mm	40.50
Total Height	mm	61.30
Piston Pin Length X OD	mm	54.0 X 26.0
Piston Pin- Pin Bore Clearance	mm	+0.009 to +0.015 (Clearance fit)

Above features make USHA 'Maruti Super Carry Diesel' piston set unique, produced to give better performance & longer life especially when fitted with recently introduced USHA 'CPC DVM' ring set.



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