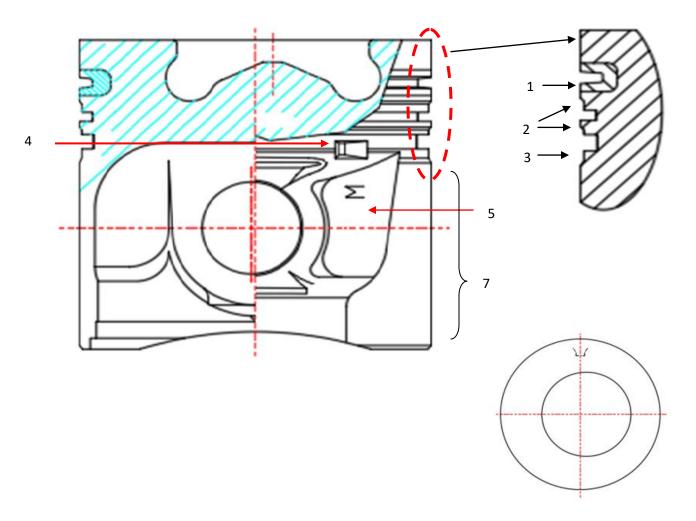
Technical Bulletin - MAHINDRA DI LCCR Piston Set

USHA is pleased to introduce Mahindra DI LCCR Piston set. This piston is suitable for Mahindra Bolero m2DiCR vehicles.



Special features of the piston are as follows:-

SI.	Special features	Benefits to customer		
no.				
1	HIGH NICKEL WEAR RESISTANT RING CARRIER	Longer life of piston due to better		
	(RCP): Top groove of this piston is made of high	wear resistance of top groove.		
	wear resistant ring carrier insert which is			
	manufactured as per latest centrifugal casting			
	process.			
2	STEP CUT IN 1st & 2nd RING LAND: Provides perfect	Helps in reducing blow-by.		
	seating of rings on the bottom flank of groove.	• Helps in reducing oil consumption.		

3	"J" CUT: This piston has been provided with a	•	'J' cut provides all time lubrication		
	unique 'J' cut below the oil ring groove area.		on skirt.		
		•	No piston seizure in extreme limits		
		of normal working conditions.			
4	QUICK OIL RETURN SLOTS (QORS): Two nos. of	Quick drainage of oil and hence			
	quick oil return slots (QORS) are provided for each		lower oil consumption.		
	piston above the pin bore, half in groove & half in				
	window.				
5	AS CAST HYDRODYNAMIC WINDOW: New	•	Faster oil drainage due to more		
	hydrodynamic 'as cast' window designed by our		space helps in reducing oil		
	collaborator, not only provides more space for oil		consumption.		
	drainage, but also provides more skirt area for better	•	Better guidance to rings also helps		
	piston ring guidance.		in reducing oil consumption.		
6	PISTON SURFACE COMPLETELY BONDERISED	•	Helps in preventing oxidation of		
			piston and improves adhesion		
			performance.		
7	SKIRT COATED WITH NEW "D-10" COATING	•	D-10 permanent coating provides		
			better wear resistance & helps in		
			initial lubrication to avoid piston		
			scuffing.		
8	MEASURING POINTS ON THE SKIRT: Two points	•	Provided for easy diameter		
	on both sides of the skirt.		verification.		

TECHNICAL DATA- MAHINDRA DI	USHA CODE→ L18	
Nominal bore diameter	mm	88.90
Piston diameter	STD Size mm	88.81
Recommended piston-liner clearance	mm	0.090
Compression height	mm	51.35
Total height	mm	84.35
Piston pin- pin bore clearance	mm	+0.004 to +0.015
		(Clearance fit)

PISTON RINGS- This piston is designed to match with existing USHA **Mahindra DI Bolero LTC/ LCCR SSTR** R/S. Technical details of Bolero LCCR rings are as under:-

TECHNICAL DATA- MAHINDRA DI BOLERO LCCR RINGS									
Ring	Ring Configuration	Axial Thickness (mm)	Closed (mm)	Gap (Thou)	Surface Treatment	Cross-Section			
Тор	Spl. Steel Keystone Inside Bevel	3.00	0.20-0.40	8-16	Inlaid Chrome & Parkerised				
Second	Taper I.D Step	2.50	0.80-1.00	32-40	Parkerised				
Oil Ring	HTCR	4.00	0.25-0.50	10-20	Lands Chrome Plated & Parkerised				

❖ This piston set and ring set is suitable for Mahindra m2DiCR engines and goes into many Mahindra vehicles listed below :

m2DiCR Engine Sporting Models :- Scorpio EX, Scorpio S2, Bolero Zlx/Slx/Sle, BMT m2DiCR, Thar m2DiCR, Bolero Pickup m2Dicr, Bolero Maxi Truck Plus m2DiCR.