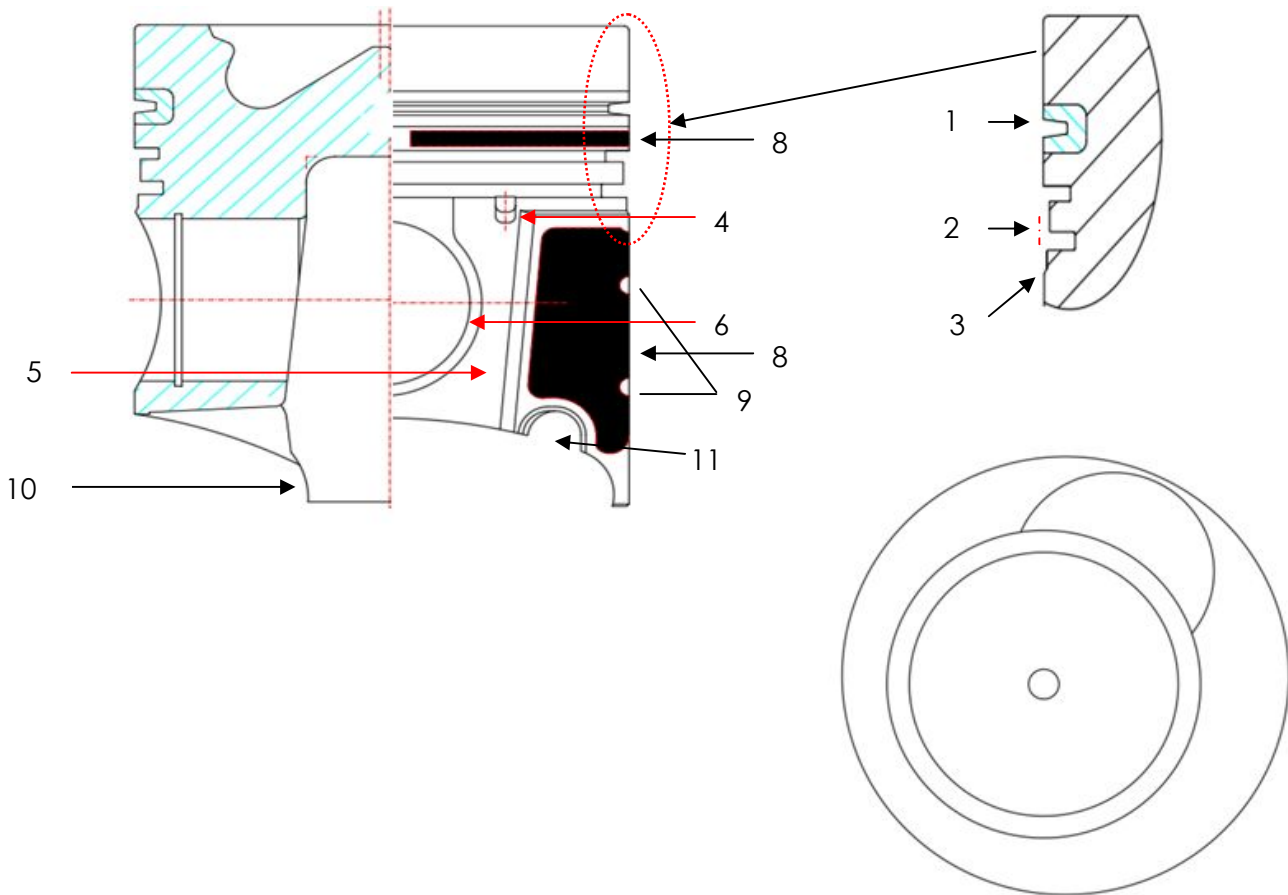


TECHNICAL BULLETIN – LEYLAND HINO H6A 180 HP PISTON SET

USHA is pleased to introduce **Leyland Hino H6A 180 HP** piston set in our product range of Leyland segment. This piston is suitable for various BS-III/IV vehicles having 25-40 tonnage load carrying capacity.

Unique features of the piston are as follows:



Sl. no	Special Features	Benefits to Customer
1	HIGH NICKEL WEAR RESISTANT RING CARRIER (RCP): Top groove of this piston is made of high wear resistant ring carrier insert, which is manufactured as per latest centrifugal casting process.	<ul style="list-style-type: none"> Longer life of piston due to negligible wear of top groove.

2	CUT BACK IN SECOND RING LAND: Land is slightly undersize to provide more space for the oil scrapped by the second ring.	<ul style="list-style-type: none"> Helps in reducing oil consumption.
3	"J" CUT: This Piston has been provided with a unique 'J' cut below the oil ring groove area.	<ul style="list-style-type: none"> 'J' cut provides all time lubrication on 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 each side of the piston above the pin bore, half in groove & half in window.	<ul style="list-style-type: none"> Quick drainage of oil and hence lower oil consumption.
5	AS CAST CONVERGENT TYPE PIN BORE RECESS: This not only provides more space for oil drainage but the unique convergent type design also provides more bearing area to the piston skirt. More bearing area on skirt helps in well guided movement of piston rings.	<ul style="list-style-type: none"> Faster oil drainage. Longer life of piston. (Seizure on minor axis is avoided)
6	BOSS PAD ON EACH SIDE OF PIN BORE: To strengthen the circlip groove area, a boss pad is provided on each side of the piston pin bore.	<ul style="list-style-type: none"> Avoids piston breakage from circlip groove area during insertion of piston pin.
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 & reduced wear.
8	1st RING LAND & SKIRT COATED WITH NEW "D-10" COATING	<ul style="list-style-type: none"> D-10 permanent coating provides better wear resistance & helps in initial lubrication to avoid piston scuffing/seizure etc.
9	MEASURING POINTS ON THE SKIRT: Two points on both sides of the skirt.	<ul style="list-style-type: none"> Provided for easy diameter verification.
10	SLIPPER DESIGN: Slipper design skirt makes the piston light weight and guides ring movement.	<ul style="list-style-type: none"> Better fuel and engine oil economy.
11	SLOTS FOR OIL COOLING JET: Provide room for cooling jet nozzles.	<ul style="list-style-type: none"> Help in directing oil flow towards under crown of the piston. Additional reduction in piston weight.

TECHNICAL DATA- LEYLAND HINO H6A 180 HP PISTON		
		USHA CODE → H22
Nominal Bore Diameter	mm	104.00
Piston Diameter	STD Size mm	103.827, 103.835, 103.843
Recommended Clearance	Piston-Liner mm	0.173
Compression Height	mm	62.635
Total Height	mm	108.635
Piston Pin- Pin Bore Clearance	mm	+0.004 to +0.014 (Clearance fit)

PISTON RINGS:

The piston is designed to match with our existing **Leyland Hino 6ETi Moly Gold SSM & CPC DVM** USHA ring sets for low oil consumption and superior performance.