



SHRIRAM PISTONS & RINGS LTD.

New
Launch

MD: TS: 05/MAY'25 INTRODUCTION CIRCULAR- **RENAULT DUSTER 110PS 1.5L DIESEL - PISTON SET**

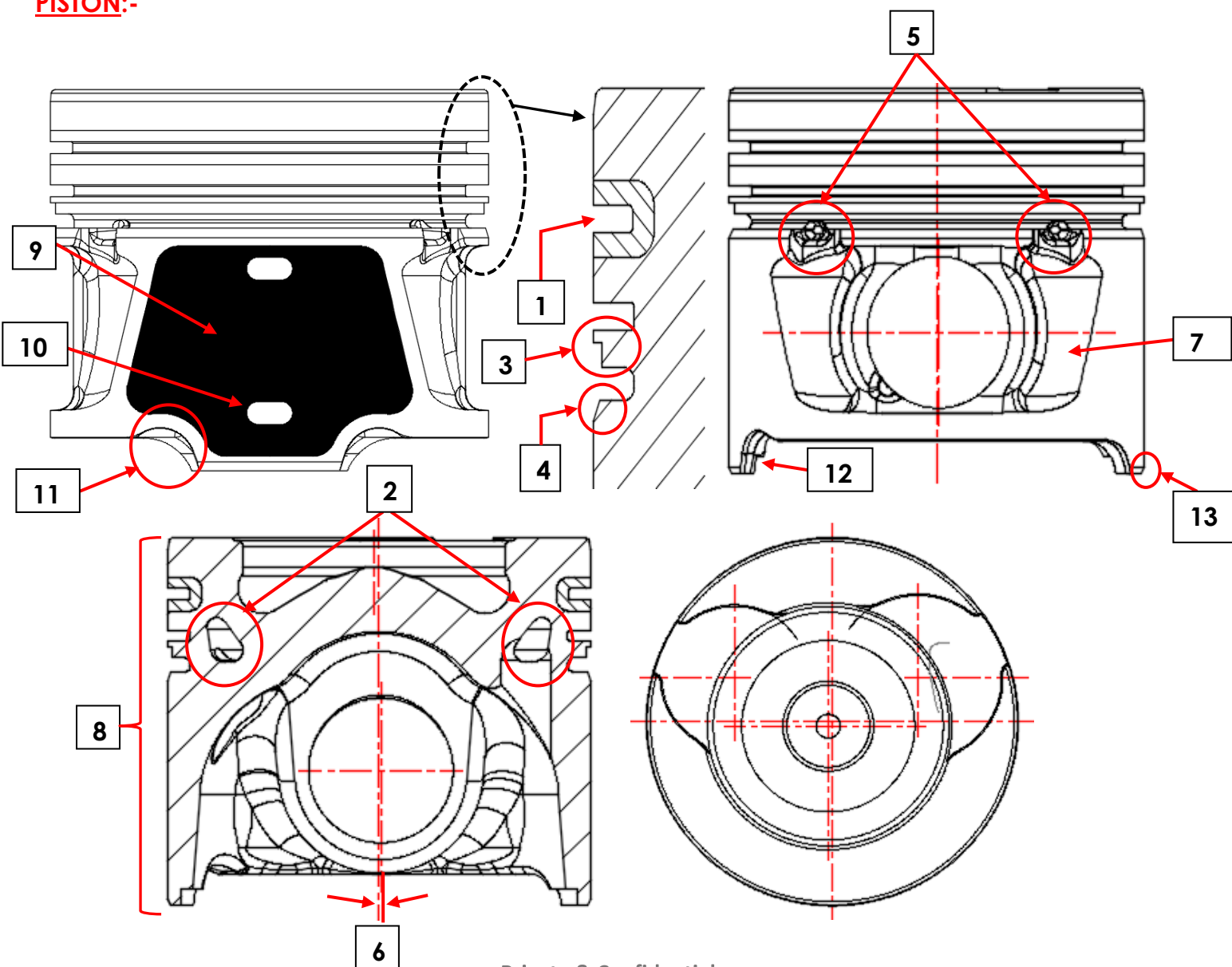
USHA is pleased to launch **RENAULT DUSTER 110PS 1.5L DIESEL** piston set in its aftermarket Car/ PV product range.

This piston set is common to **RENAULT FLUENCE, LODGY & NISSAN TERRANO 1.5L (K9K 110PS)** models.



This piston set has following special features: -

PISTON:-



Private & Confidential

Unique features of USHA **RENAULT DUSTER 110PS 1.5L 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)	OIL COOLING GALLERY (OCG): A through oil cooling gallery is made around the periphery on under crown area of the piston beneath ring zone with the help of salt core during casting, through which oil flows continuously during its working cycle.	<ul style="list-style-type: none"> Facilitates faster heat dissipation Helps in rapid cooling of combustion bowl & ring groove areas, thereby enhancing piston & engine life
3)	STEP CUT IN 2ND RING LAND: This piston has a step cut 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
4)	CHAMFER AT BOTTOM OF OIL RING GROOVE: An all-round chamfer 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
5)	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"> Faster drainage of excess oil, hence low oil consumption
6)	PISTON-PIN BORE OFFSET: The piston is provided with a 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"> Reduced engine noise
7)	AS CAST HYDRODYNAMIC WINDOW: 'As Cast' hydrodynamic window not only provides more space for oil drainage, but also provides more bearing area to piston skirt which helps in guiding ring's movement.	<ul style="list-style-type: none"> Reduces chances of seizure at minor axis, hence longer piston life
8)	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
9)	'Nano-friKS COATING' ON PISTON SKIRT:	<ul style="list-style-type: none"> Helps in initial lubrication & seizure free operation Better wear resistance Reduces engine noise

10)	MEASURING POINTS ON PISTON SKIRT:	<ul style="list-style-type: none"> • Provided for easy diameter verification
11)	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
12)	SLIPPER DESIGN: Slipper design helps in reducing piston weight.	<ul style="list-style-type: none"> • Improves fuel efficiency • Low noise during engine working
13)	SCRAPING 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 – RENAULT DUSTER 110PS 1.5L DIESEL PISTON (Ø 76.00 mm)	
USHA CODE→ C47	
Nominal Bore Diameter	76.00
Piston Diameter	75.94
Recommended Piston-Liner Clearance	0.06
Compression Height	41.71
Total Height	66.00
Gudgeon Pin Length X OD	59.85 X 26.00
All dimensions in 'mm'	

Above features make USHA **RENAULT DUSTER 110PS 1.5L DIESEL** piston set unique, produced to give better performance & longer life especially when fitted with USHA '**DVM**' ring set (USHA Code: **C19**) of Renault K9K 1.5L (Renault Duster/ M&M Logan/ Nissan Micra) diesel engine, already in our range.



Technical Product News is an exclusive update of product & information from
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