



SHRIRAM PISTONS & RINGS LTD.



MD: TS: 02/MAY'25 INTRODUCTION CIRCULAR – JEEP COMPASS/ TATA HARRIER 2.0L (D) 'CPC DVM'-RING SET

USHA is pleased to launch **JEEP COMPASS/ TATA HARRIER 2.0L DIESEL 'CPC DVM'** ring set in its aftermarket PV product range.

This ring set is also suitable for **JEEP MERIDIAN, TATA SAFARI & MG HECTOR.**


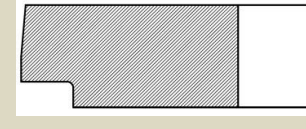
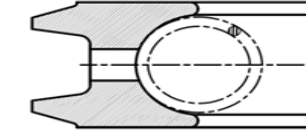


This ring set has following special features:

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Special Steel Semi Inlaid Composite Plating of Chrome {SSCPC(I)}	Special Steel Material	Top ring is manufactured using special steel alloy which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear etc.
		Semi Inlaid CPC Coating	A groove is made on the outer periphery of the ring for better bonding of surface coating (semi inlaid) with base material. CPC is a specialized process of first plating the ring OD with chrome, then creating cracks, then filling up hard particles (Al_2O_3) in these cracks. This process is repeated many times building one layer above another. CPC rings have higher wear & scuff resistance under all working conditions.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.
2nd Ring	Taper Outside Step {TOS}	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.
		Outside Step	Ring has a step cut on lower outside face due to which ring tilts positively and locks ring groove to restrict oil escaping towards combustion chamber during piston movement. Also facilitates better scraping of oil during downward movement for low oil consumption.
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication & lesser wear.
Oil Ring		Steel Material	Ring is made up of steel for longer life.

Diesel Vent 'M' shape (DVM)	Gas Nitriding (GN)	The ring is gas nitrided to provide wear resistance to all surfaces, hence longer life.
	Highly Conformable	DVM ring has built-in tension and spring beneath makes it highly conformable to the bore wear for better oil scraping.
	Sharp Scraping Ring Lands	The sharp ring lands with high wall pressure ensures better scraping of oil resulting in lower oil consumption.
	Multiple Oil Drainage Slots	Ensure faster drainage of oil.
	Excellent Flatness	Side faces of DVM oil ring remain flat and do not swell as in case of ordinary oil ring, for a free movement in groove.
	Light in Weight	Ring is lighter in weight than ordinary oil ring which reduces fluttering of ring in groove thereby avoids pumping up of oil, hence low oil consumption.

Technical data of **JEEP COMPASS/ TATA HARRIER 'CPC DVM' 'CPC DVM'** ring set is as under:

TECHNICAL DATA- JEEP COMPASS/ TATA HARRIER 'CPC DVM' 2.0L DIESEL 'CPC DVM' - RING SET (ø 83.00 mm)						
						USHA Code → C64
Ring	Ring Config.	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	SSCPC(I)	1.50	0.25-0.45	10-18	Semi Inlaid Composite Plating of Chrome/ Parkerising	
2 nd	TOS	1.50	0.60-0.80	24-32	Parkerising	
Oil	DVM	2.00	0.20-0.45	08-18	Gas Nitriding	

USHA **JEEP COMPASS/ TATA HARRIER 'CPC DVM' 2.0L DIESEL 'CPC DVM'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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