




# SHRIRAM PISTONS & RINGS

MD: TS: 19/NOV' 23

INTRODUCTION CIRCULAR – **TATA 407 'OSR'**

USHA is pleased to launch **Tata 407 'Oil Saver Rings' (OSR)** in its LCV aftermarket product range with **'lower end gaps'** especially for re-ringing job.



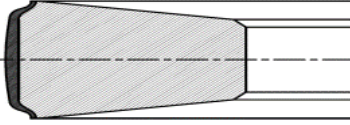
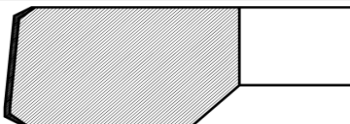
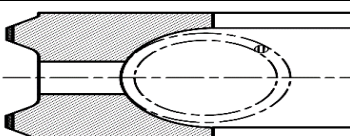
The ring set will be packed in all new **Blue coloured tin containers** with  sticker pasted on the packaging as shown:

This ring set has following special features:

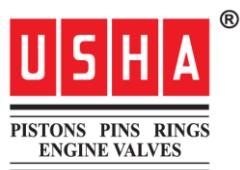
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Special Steel Keystone Chrome {CRKSS}	Special Steel Material (RIK-20A)	Top ring is manufactured using special steel alloy which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear etc.
		Keystone Geometry	Special keystone geometry keeps squeezing out excess oil from the groove, thereby minimizing chances of carbon deposition, sludge formation & preventing ring sticking inside the groove.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication and lesser wear. It also prevents rusting & enhances shelf life.
		Chrome Plating	Outer periphery of the ring is chrome plated which provides excellent wear & scuff resistance.
2 <sup>nd</sup> Ring	Reverse Torsion Chrome {CRRT}	Taper face	Ring has a Taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.
		Inside bevel on lower face	Ring has a bevel cut on lower inside face due to which ring twists in anti-clockwise direction during suction stroke which locks the groove to reduce blow-by & restricts upward movement of oil.
		Parkerising	Side faces are also parkerised to provide porous surface for oil retention resulting in better lubrication and lesser wear. It also prevents rusting & enhances shelf life.

		Chrome Plating	Outer periphery of the second ring is also chrome plated which provides excellent wear & scuff resistance.
Oil	Spring Loaded Chrome Plated Cast Iron Profile Ground {HTCR (PGV)}	Highly Conformable	Coil spring ensures high conformability with the bore for perfect sealing & excellent oil scrapping at all times.
		Chrome Plated & Profile Ground Ring Lands	Ring lands are made uniform throughout the periphery for an effective sealing and efficient scrapping of oil due to sharper edges. Chrome plating provides excellent wear & scuff resistance.
		Parkerising	Side faces are parkerised to provide porous surface for oil retention resulting in better lubrication and lesser wear. It also prevents rusting & enhances shelf life.

Technical data of **Tata 407 'OSR'** series ring set is as under:

TECHNICAL DATA- <b>TATA 407 - 'OIL SAVER RINGS'</b> (ø 97.00 mm)						
						USHA Code → <b>220OSR</b>
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	CRKSS	2.50	0.20-0.35	08-14	Chrome Plating/ Parkerising	
2 <sup>nd</sup>	CRRT	2.50	0.20-0.35	08-14	Chrome Plating/ Parkerising	
Oil	HTCR (PGV)	4.00	0.15-0.30	06-12	Chrome Plated lands/ Parkerising	

USHA **Tata 407 'OSR'** series ring set is specially designed with '**lower end gaps**' to minimize oil consumption & blow-by while doing re-ringing job for an excellent performance.



Technical Product News is an exclusive update of product & information from  
**Shriram Pistons & Rings Ltd., 3rd Floor, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110001**  
 Tel: 011-46451100, 23315941, Email: fss@shrirampistons.com, Website: www.shrirampistons.com