

Introducing

USHA®

OCT'2021

TATA SUMO GOLD BS-IV 'IP DVM' RING SET



MD: TS: 11/2022

An update from SHRIRAM PISTONS & RINGS LTD.

USHA[®] is pleased to launch TATA SUMO GOLD BS-IV 'IP DVM' ring set in its LCV/MUV product range.

This ring set is also compatible with TATA 407 SPACIO BS-IV engine vehicles.

This ring set has following special features:-

ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER		
TOP RING	Keystone Steel Inside Bevelled Ion Plated (HPKIB-PVD)	Steel Material	Top ring is made up of steel which possesses good elasticity, excellent resistance to twisting, breakage & wear, hence longer life.		
		Keystone Geometry	Special keystone geometry keeps squeezing out excess oil from the groove, there by prevents carbon deposition/sludge formation.		
		Inside Bevelling	Ring has a bevel cut on top inside edge which facilitates ring to twist positively during its downward movement & provides better sealing.		
		Ion Plating	Ion plating is a Japanese technology based on PVD (Physical Vapour Deposition) through which chrome and nitrogen ions get deposited on ring outer surface. Ion plating is a superior coating for improving wear & scuff resistance to enhance ring life.		
2 nd RING	Taper Inside Step Ring (TIS)	Taper Face	Ring has a taper on OD to provide line contact with liner resulting in higher wall pressure, hence better sealing.		
		Inside Step	Ring has a step cut on upper inside face due to which ring tilts positively and locks ring groove to avoid oil escaping towards combustion chamber during upward movement. Also facilitates better oil scrapping during its downward movement, hence low oil consumption.		
		Parkerising	Ring is fully parkerised to provide porous surface for oil retention resulting in better lubrication, hence lesser wear.		
OIL RING	Diesel Vent 'M' shape Oil Ring (DVM)	Steel Material	Ring is made up of steel for longer life.		
		Gas Nitrided (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 bore wear for better oil scrapping.		
Sharp Scrapping Ring Lands	The sharp ring lands with high wall pressure ensure better scrapping 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 in ring groove. Less fluttering avoids pumping up of oil thereby reducing oil consumption.		

Technical data of TATA SUMO GOLD BS-IV 'IP DVM' ring set is as under:-

TECHNICAL DATA- TATA SUMO GOLD BS-IV – 'IP DVM' RINGS (Ø 97.00 mm)									
USHA Code →L34									
	Din er	Axial	Closed Gap		Surfa e e				
Ring	Ring Configuration	Thickness (mm)	(mm)	(Thou)	Surface Treatment	Cross Section			
Тор	HPKIB(PVD)	3.00	0.25-0.35	10-14	lon Plated (PVD)				
Second	TIS	2.50	0.30-0.60	12-24	Parkerised				
Oil Ring	DVM	2.50	0.25-0.45	10-18	Gas Nitrided				

USHA^{*}TATA SUMO GOLD BS-IV 'IP DVM' ring set has been specially designed to reduce oil consumption by 40% for better fuel efficiency & longer life.



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: tss@shrirampistons.com, Website: www.shrirampistons.com