



SHRIRAM PISTONS & RINGS

MD: TS: 04/AUG'22 INTRODUCTION CIRCULAR – **LEYLAND BOSS/ECOMET/BS3A/ETI 'MOLY GOLD SSM'– RING SET**

USHA is pleased to launch **LEYLAND BOSS/ ECOMET/ BS3A/ ETI 'MOLY GOLD SSM'** ring set in its LCV product range.

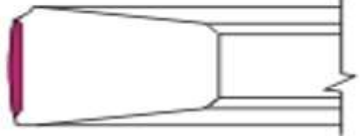

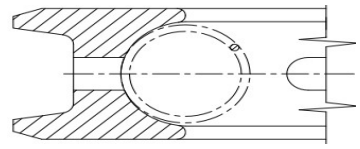


This ring set has following special features:

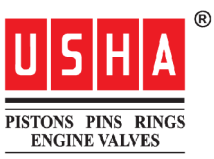
ITEM	CONFIGURATION	FEATURES	BENEFITS TO CUSTOMER
Top Ring	Keystone Special Steel Inlaid Moly (KSSMO)	Special Steel Material (RIK-20A)	Top ring is manufactured using special steel alloy (RIK-20A), which has properties similar to steel. This material has good elasticity and excellent resistance to twisting, breakage & wear.
		Keystone Geometry	Special keystone geometry keeps squeezing out excess oil from inside the groove, thereby prevents carbon deposition/ sludge formation.
		Inlaid Moly	Moly is a special formulated material deposited in the groove made on outer periphery of ring (Inlaid) by Plasma process. The special Plasma process is carried out in an inert gas chamber shielded from atmosphere, which prevents oxidation & creates a strong bond between Moly material & base surface of the ring. Moly not only reduces wear, but also gives longer life improving engine performance in terms of lower blow-by & oil consumption. Moly surface retains oil due to its porous nature & helps in preventing ring scuffing.
2 nd Ring	Taper Inside Step (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 & lesser wear.

Oil Ring	Diesel Vent 'M' shape (DVM)	Steel Material	Ring is made up of steel for longer life.
		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 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, hence avoids pumping up of oil thereby reducing oil consumption.

Technical data of **LEYLAND BOSS/ ECOMET/ BS3A/ ETI 'MOLY GOLD SSM'** ring set is as under:

TECHNICAL DATA- LEYLAND BOSS/ ECOMET/ BS3A/ ETI 'MOLY GOLD SSM' - RING SET (ø 104.00 mm)						
USHA Code → L20/ L21/ L24						
Ring	Ring Configuration	Axial Thickness (mm)	Closed Gap		Surface Treatment	Cross Section
			(mm)	(Thou)		
Top	Special Steel Keystone	3.00	0.30-0.45	12-18	Inlaid Moly	
2 nd	Taper Inside Step	2.50	0.30-0.45	12-18	Parkerising	
Oil	DVM	3.00	0.25-0.45	10-18	Gas Nitriding	

USHA **LEYLAND BOSS/ ECOMET/ BS3A/ ETI 'MOLY GOLD SSM'** ring set is specially designed to reduce oil consumption & blow-by for an excellent performance.



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