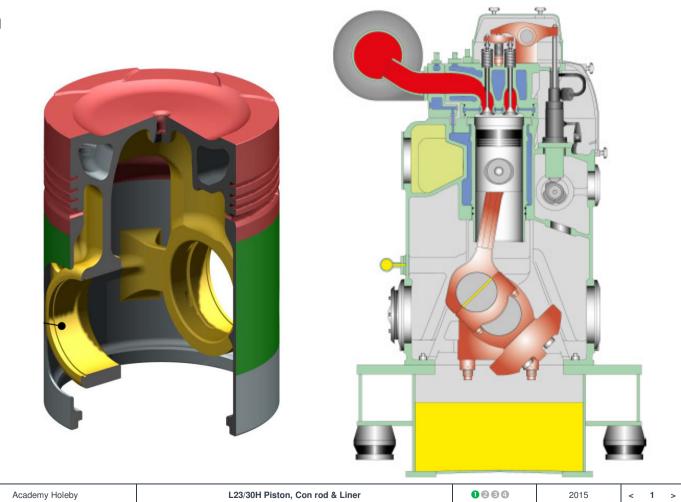
L23/30H, Piston, Con. Rod and Cyl. Liner -Piston



The MAN L23/30H engine is supplied with oil cooled nodular cast iron pistons which have

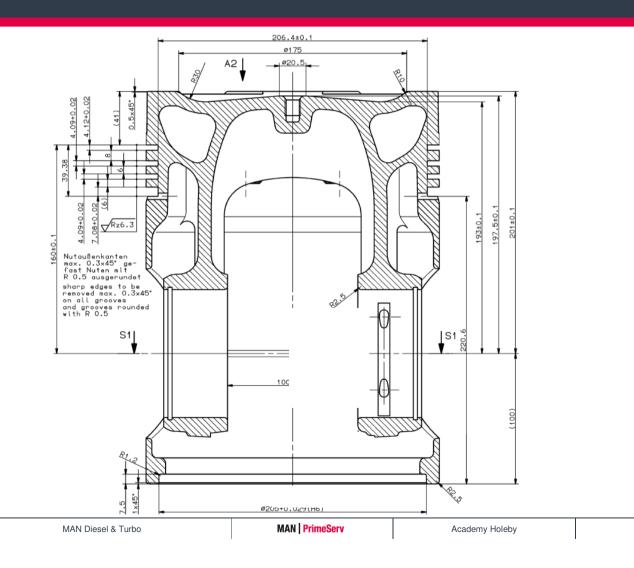
- •2 compression rings,
- •1 Minuten ring and
- •1 spring loaded oil scraper ring.





L23/30H, Piston, Con. Rod and Cyl. Liner - *Piston*







L23/30H Piston, Con rod & Liner

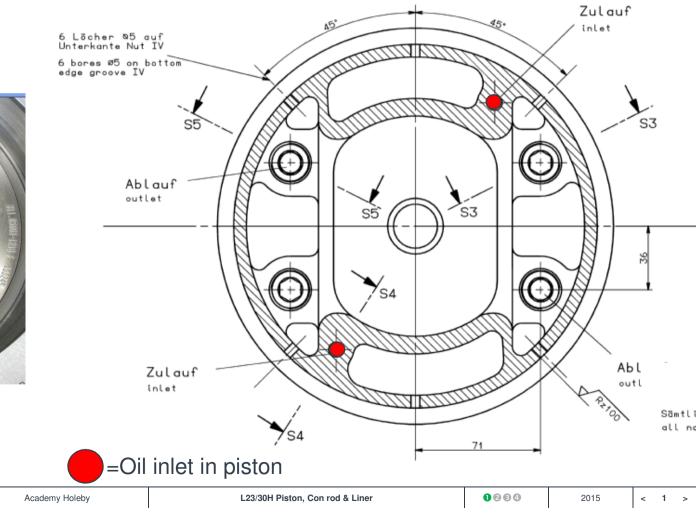
L23/30H, Piston, Con. Rod and Cyl. Liner - *Piston cooling*





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L23/30H, Piston, Con. Rod and Cyl. Liner - Piston cooling



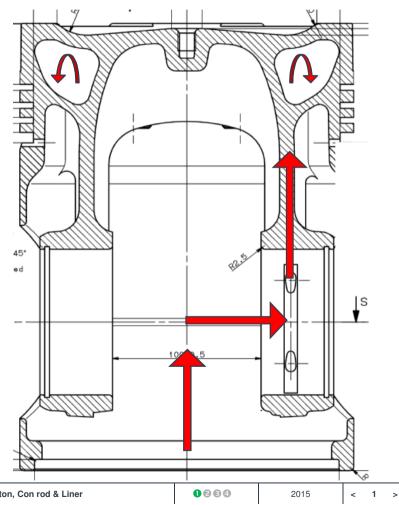


•The piston has cooling oil space close to the piston crown and the piston ring zone.

•The heat transport and thus cooling effect is based on the shaker effect arising during the movement of the piston. (8-9 Gforce)

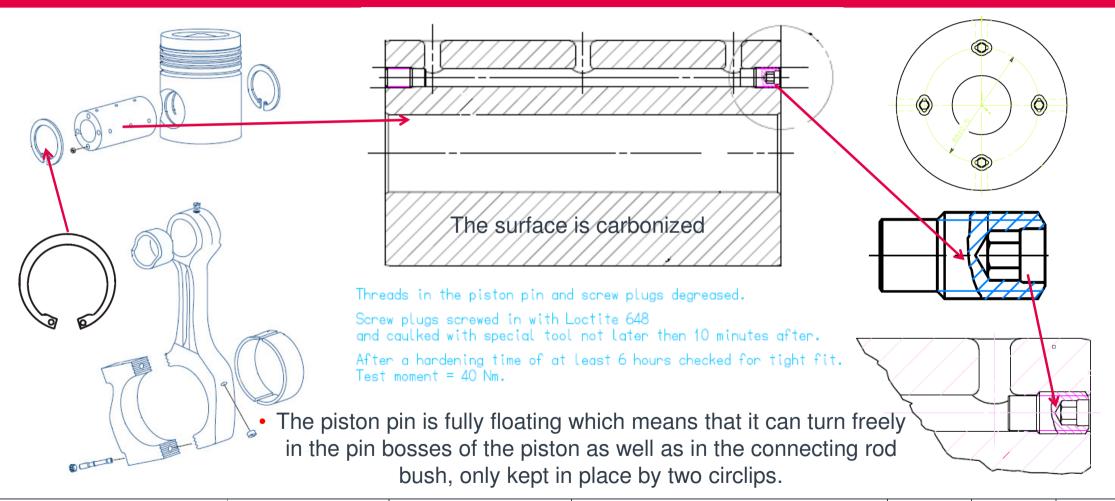
• As cooling oil, oil from the engines lubricating system is used. Oil is supplied to the cooling space through a bore in the connecting rod to the liner for the piston pin.

 The piston has a groove from which part of the oil lubricates the piston pin.



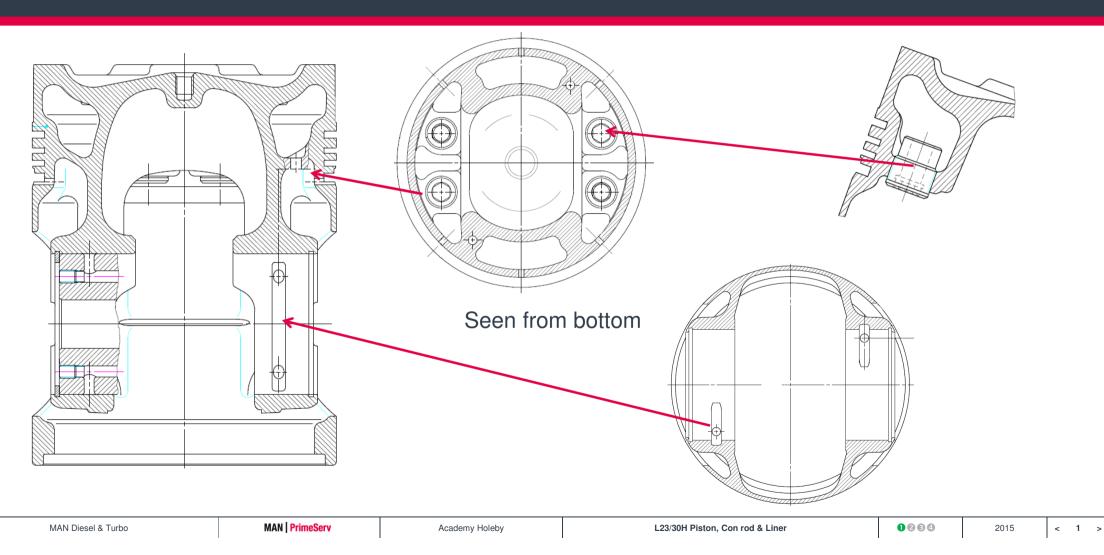
L23/30H Piston, Connecting Rod and Liner - *Piston pin*





L23/30H Piston, Con. Rod and Cyl. Liner - *Piston*

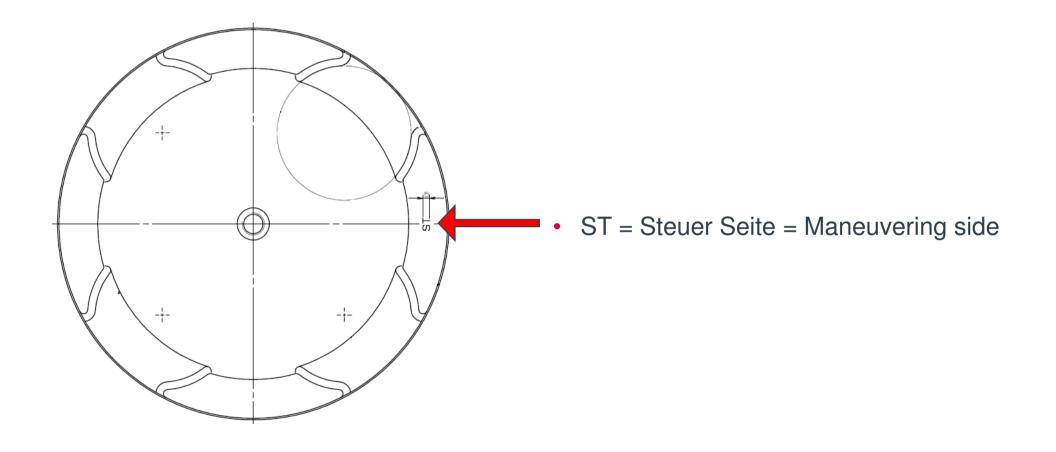




L23/30H Piston, Con. Rod and Cyl. Liner

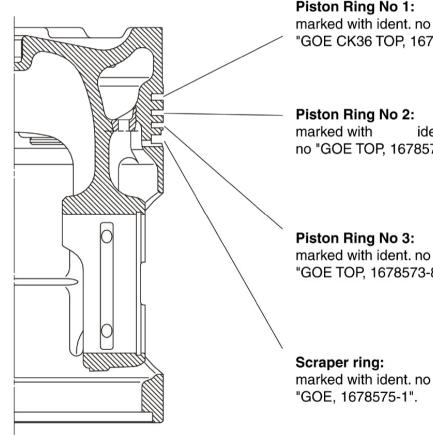
- Piston marking

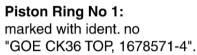




L23/30H, Piston, Con. Rod and Cyl. Liner - Piston rings

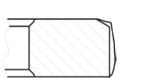


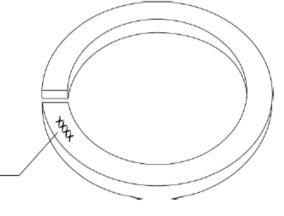






Piston Ring No 2: marked with ident. no "GOE TOP, 1678572-6".





Piston Ring No 3: marked with ident. no "GOE TOP, 1678573-8".



Identification marks to face upwards against the piston crown when mounted.

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L23/30H Piston, Con. Rod and Cyl. Liner - Piston ring





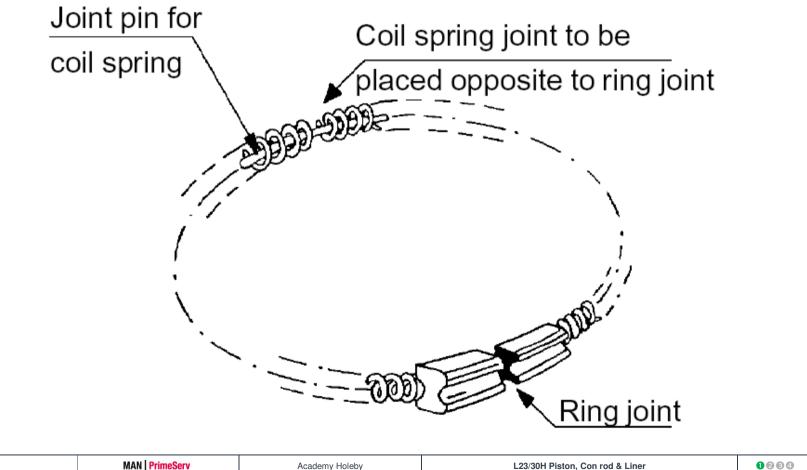
Identification marks to face upwards against the piston crown when mounted.

Note: The marking may include other figures than mentioned above, for instance trade mark and production codes.

MAN Diesel & Turbo	MAN PrimeServ	Academy Holeby	L23/30H Piston, Con rod & Liner	000	2015	< 1 >

L23/30H, Piston, Con. Rod and Cyl. Liner -Scraper ring



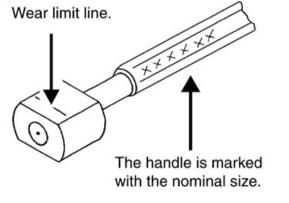


L23/30H Piston, Con. Rod and Cyl. Liner - Testing mandrel

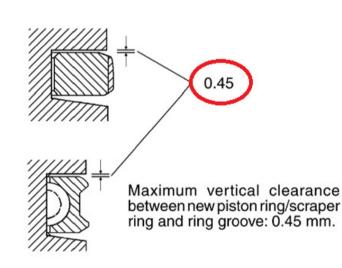


A) Testing Mandrel for Ring Grooves

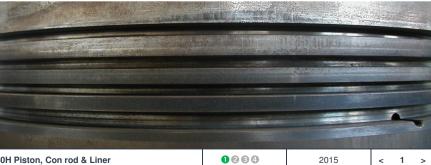
If the wear limit (2 mm mark) on the testing mandrel is exceeded, the specified max. wear limits are exceeded, and the piston must be scrapped.



B) Clearance Ring/Groove



	Piston and oil scraper ring. Nominal size.	New ring grooves. Tol- erances.	Ring grooves. Max. wear limit.
Piston ring no 1	New 6.0 mm	6.0 mm +0.18, +0.16	6.43 mm
Piston ring no 2	New 5.0 mm	5.0 mm +0.14, +0.12	5.43 mm
Piston ring no 3	New 4.95 mm	5.0 mm +0.14, +0.12	5.43 mm
Scraper ring	New 8.0 mm	8.0 mm +0.12, +0.10	8.43 mm



MAN Diesel & Turbo

L23/30H Piston, Con rod & Liner

L23/30H Piston rings



Note: At each piston overhaul:

- The piston and scraper ring must be exchanged.
- The cylinder liner must be honed according to the instructions.