



FAILURE INFORMATION

SEIZURE AT THE LOWER END OF THE PISTON SKIRT

Description of the Failure

- There are marks of seizure in a particular area at the bottom of the piston skirt. (Figure 1)
- The marks of seizure are in matt form.



Figure 1

Causes of the Failure

These marks that occur at the piston skirt occur due to lack of space in this area. The causes of this lack of space are as follows;

- Width of O-ring seals in the channel housing is wrong. The channel is not cleaned well.
- Piston ring grooves in wet liners are not cleaned.

- Assembly is made without lubricating during assembly of O-Ring seals.
- Cylinder head bolts are screwed to an inaccurate torque value.
- Cylinder measurement is processed inaccurately at the cylinder end and the diameter is reduced.

Recommendations

- You should be careful about choosing the O-Ring and use an O-Ring of correct thickness.
- You should apply some grease onto the O-Ring seals during assembly and avoid torsion and distortion.

- In order to avoid lack of space, you should first assemble the wet cylinder liners without seal. In this way, any lack of space can be determined in advance. After that, the cylinder liner can be assembled completely with the seals.

-After the honing, you should measure the cylinder bores at several levels and directions.

