

It appears there are surface cracks on the thread flanks that are origination sites for a lot of the white rust, and some red rust.
 Theory: The surface cracks are entrapping and retaining plating fluids (acids) in the plating process. These cause quick appearance of the rusts in the thread flanks.



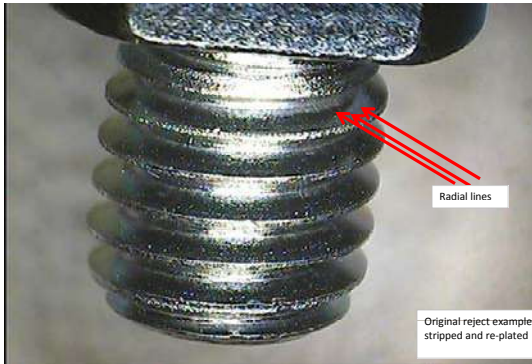
Original reject example



Under more powerful microscope you can see these radial lines are surface cracks.

Look for radial lines sort of like this in all the pictures.

Original reject example



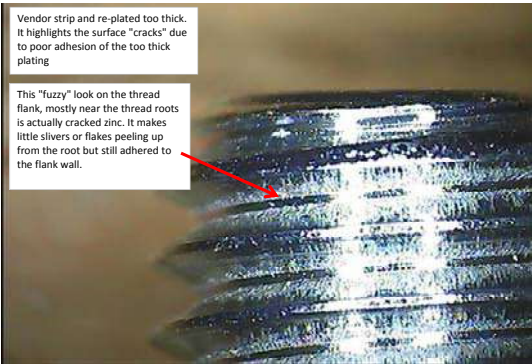
Radial lines

Original reject example stripped and re-plated



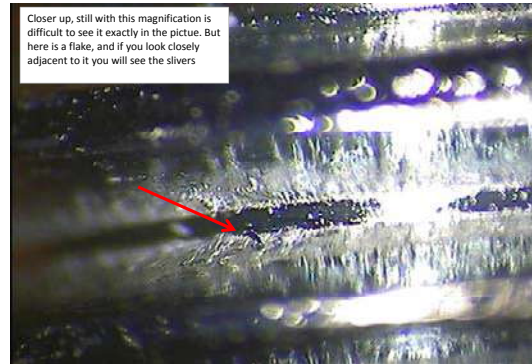
Radial lines

New receipt 10-31-11



Vendor strip and re-plated too thick. It highlights the surface "cracks" due to poor adhesion of the too thick plating

This "fuzzy" look on the thread flank, mostly near the thread roots is actually cracked zinc. It makes little slivers or flakes peeling up from the root but still adhered to the flank wall.



Closer up, still with this magnification is difficult to see it exactly in the picture. But here is a flake, and if you look closely adjacent to it you will see the slivers



Radial lines

Stripped part example.

