Westland West Extension Drum Screen Refurbishment 4 ea. 9' dia. 12' wide drums

by Bob Haverfield, D (DFW)





This is what we started with.

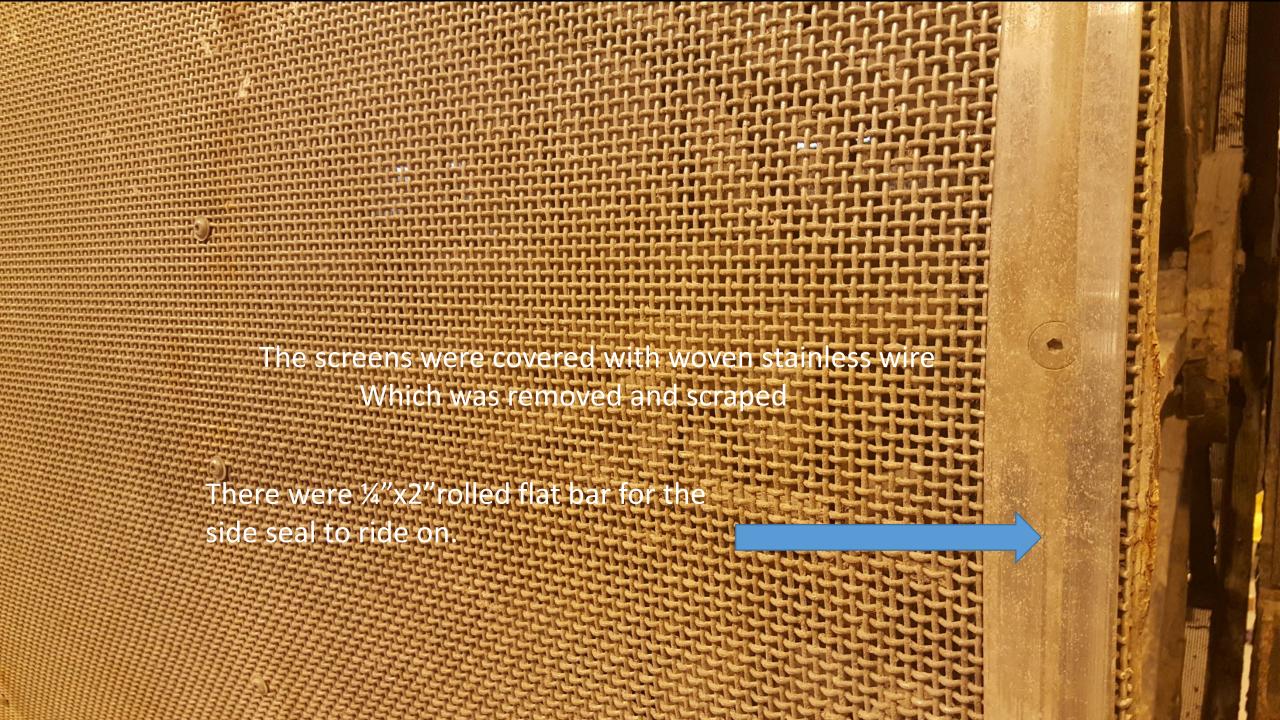


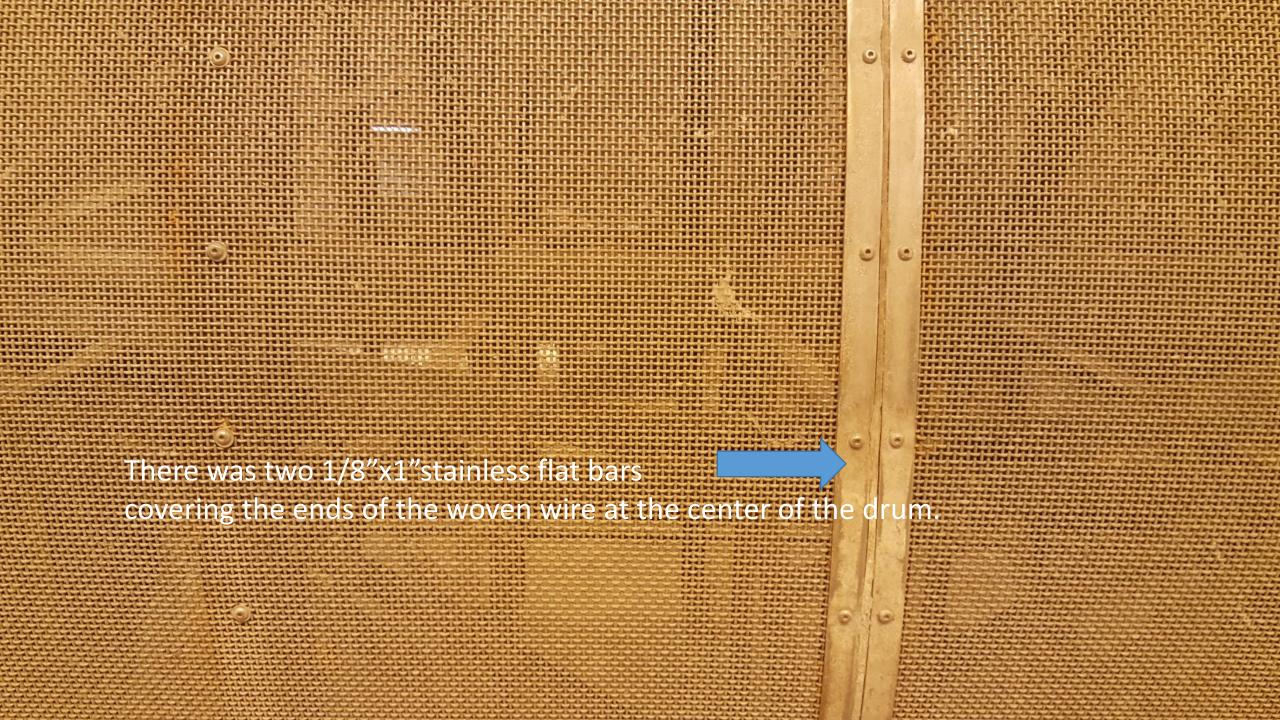




Not much of the magnesium anodes rods left.







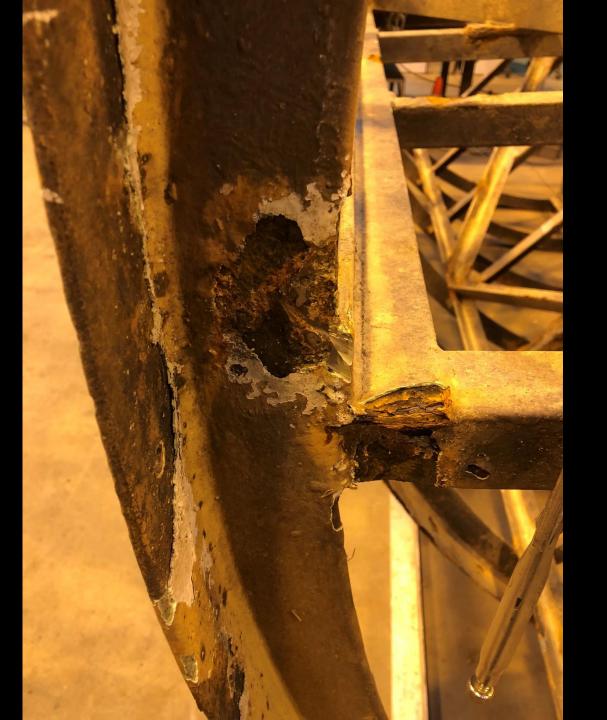


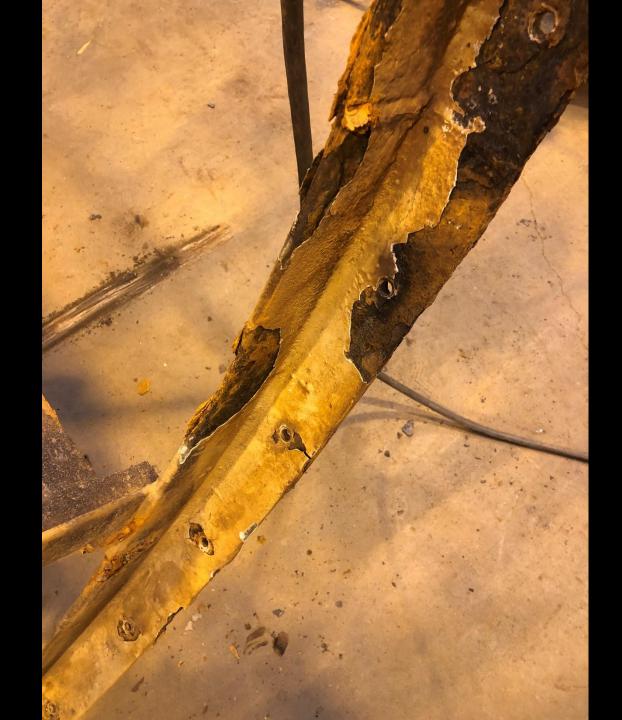


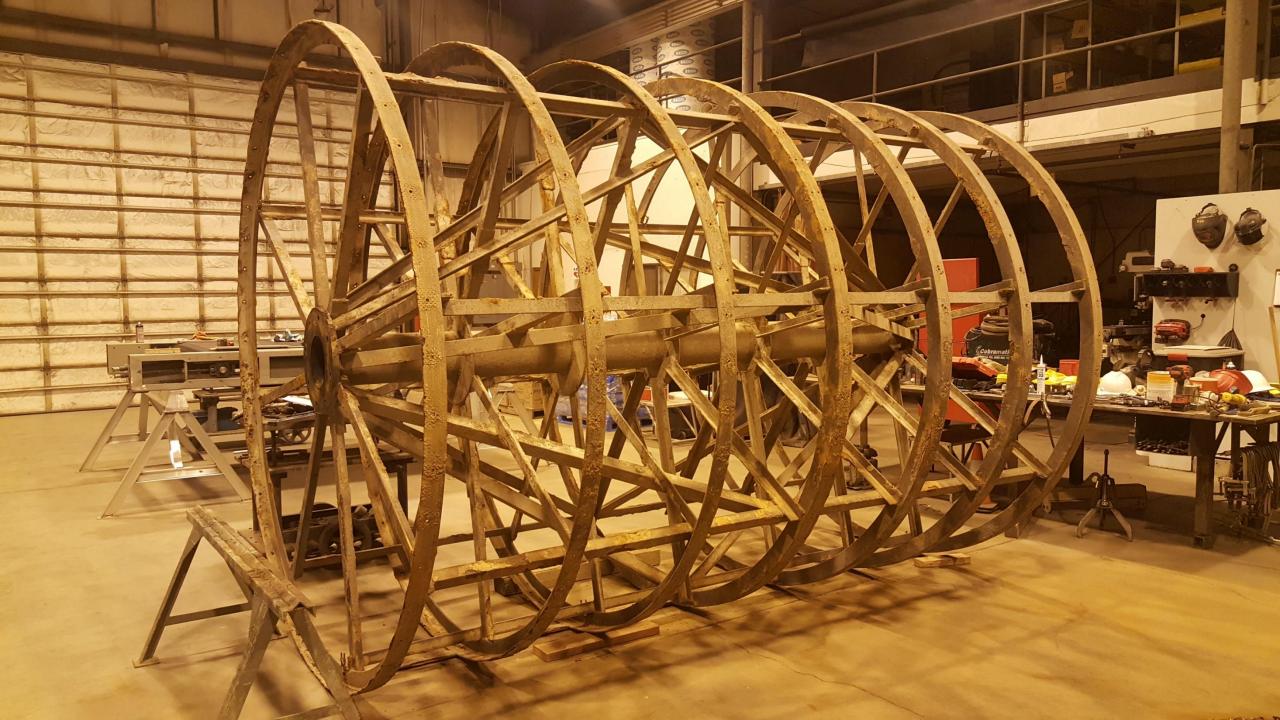












1/4 x 4" flat bar was added to caught the end of the perf plate half way on each side.

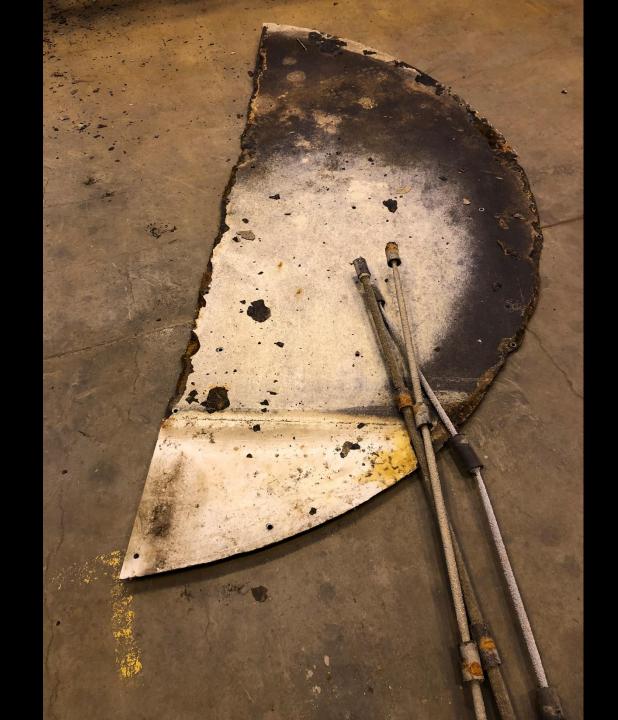


Not sure what it is, I think it was lead.





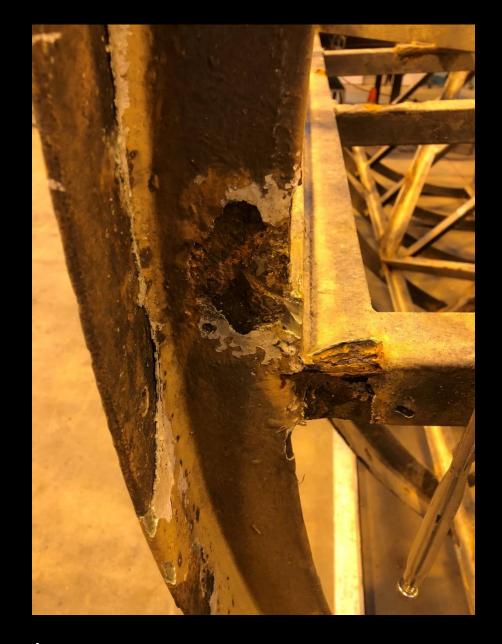
Old wing plate and anodes



New wing plates







Some of the rust damage.





Chain covers had to be patched.

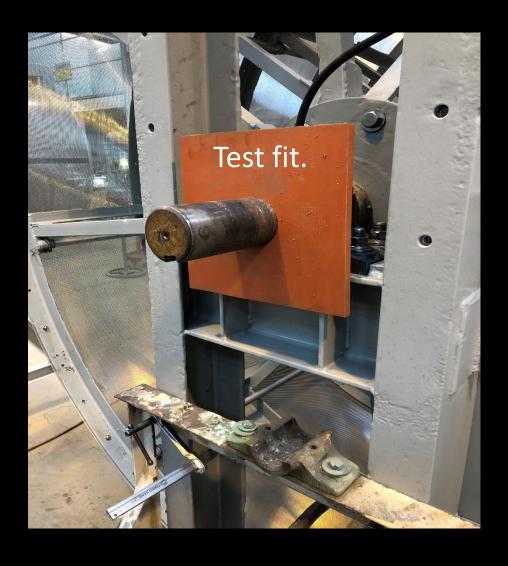


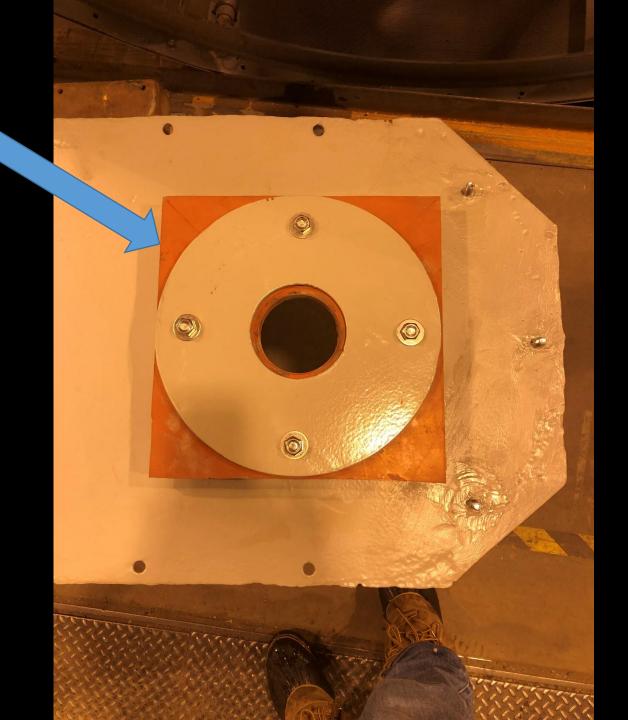


We added weld nuts to make it easier to remove chain cover.



New rubber chain well seal.

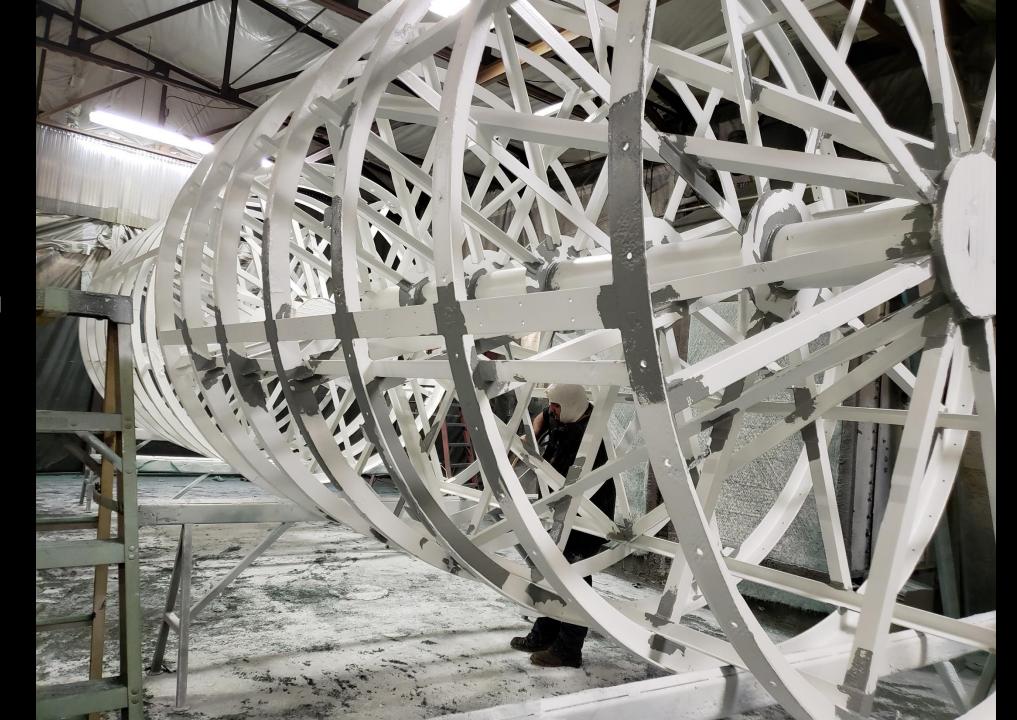




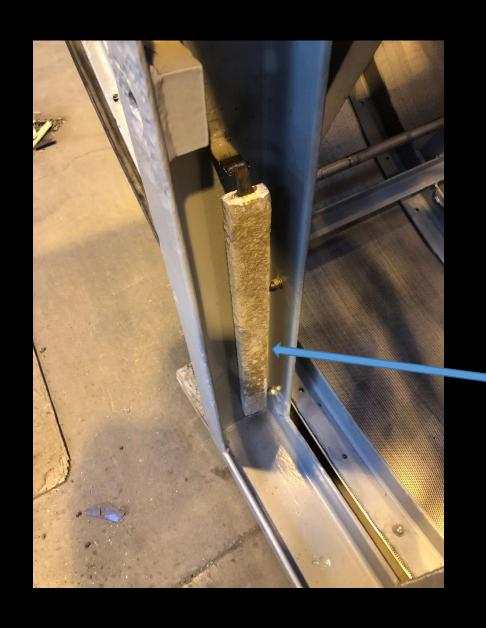
After blasting and primer the painters put an extra coat over the badly pitted areas.

Blast and coating was by Industrial Coating Unlimited LLc.





Primered



2 of the frames had be straighten.

Added back.



Before we stood the frames up the wing plates where bolted into place.





The drum had to be set into the frame before we could install the shafts and bearings.



Drive end after shaft plate and bottom half of the new bearing is installed.

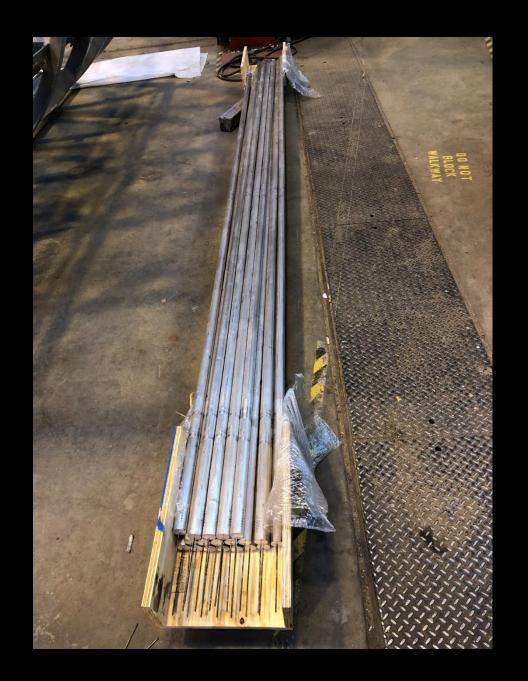


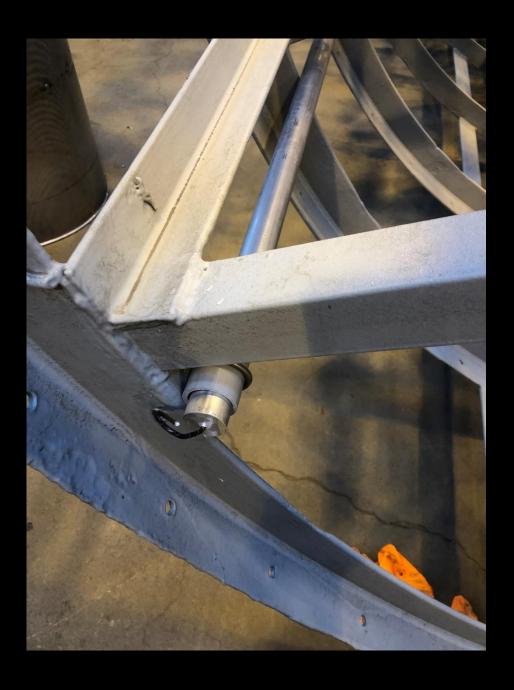
New bronze bearings and grease lines.



The drum is installed and ready to have the magnesium rod and perf-plate installed.





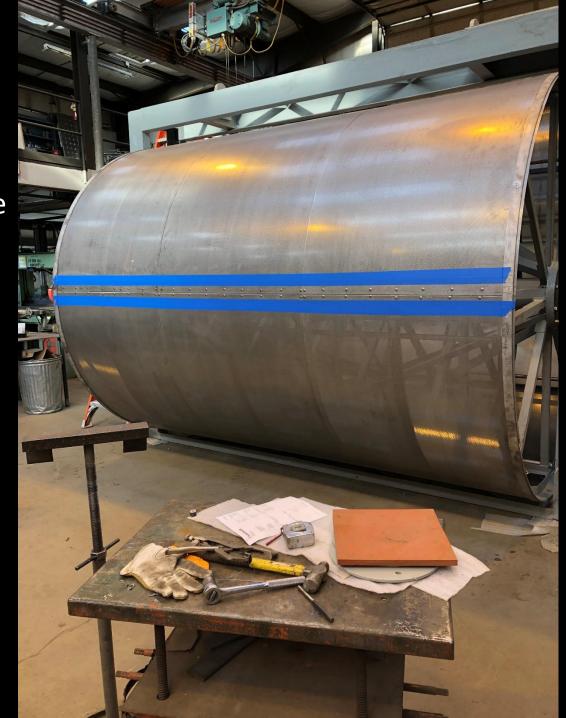


This view show the splice bar and where the anodes are attached to the drum.



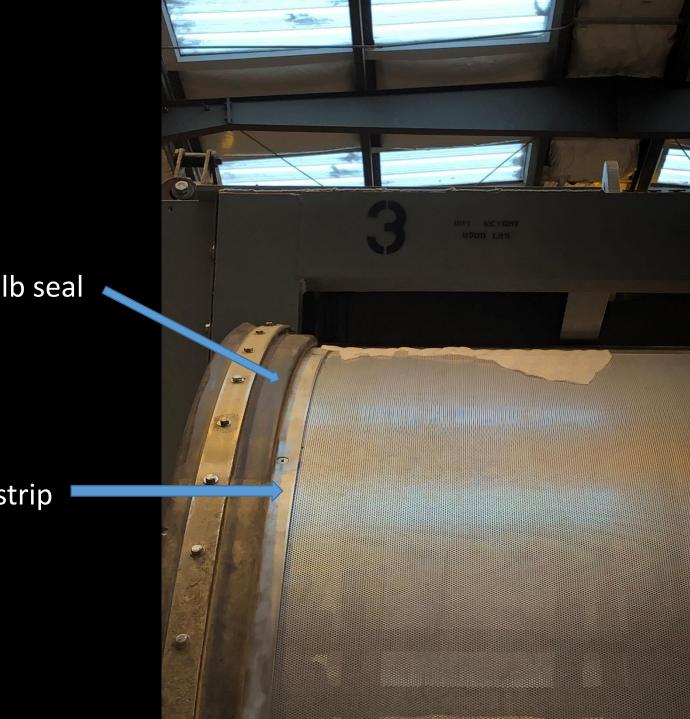


The drum is mast off and ready for the capastic to be put over the seams.









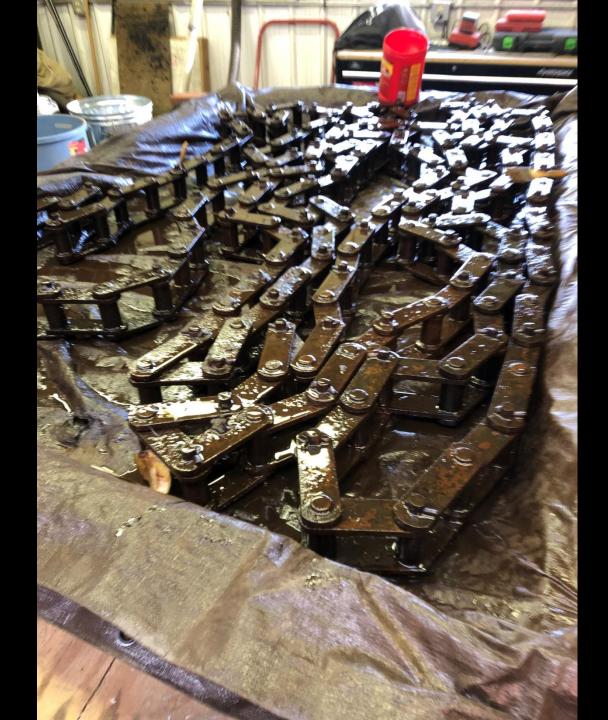
Large bulb seal

Stainless wear strip

A small brush was installed to cover the gap between the side bulb seal and bottom seal.



Lubing the chain with mineral oil.



Monster chain





From old to new.





All buttoned up and ready to ship.

(SUMMARY)

Approximately 320 man hours per screen

Per screen
Estimated cost = \$53,058.75
Actual cost = \$47,961.69
Total for all 4 = \$191,846.76

