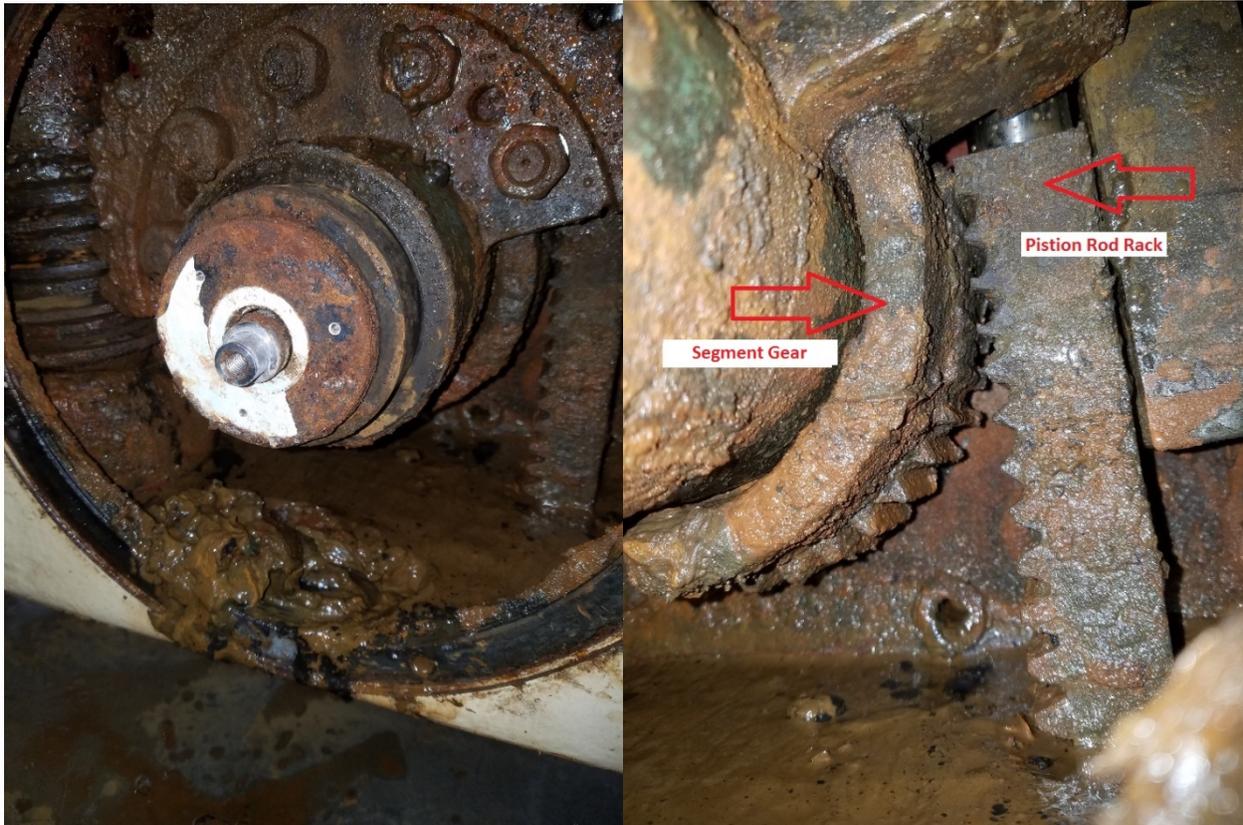


CITY OF LAUDERHILL - 105421
Inspection/Evaluation dated 11.12.2019

16" Class 150 GBZ Valve S/N: 62550
Original SO 99124 dated June 1999

Gearbox and Hydraulic Cylinder



The above photos show the condition of the Piston Rod Rack and Gear Segment. These components are vital to the valve performance. In its current state the hydraulic damping is inoperable.

- Piston Rod Rack and Gear Segment are severely damaged due to corrosion.

Recommendation would be to replace the complete gear and hydraulic cylinder.

Built To Meet Critical Requirements

12303 Cutten Road, Houston, TX 77066
(281) 453-3750 FAX (281) 453-3749
adamsvalves-usa.com

Valve Disc Inspection



Extensive corrosion to disc found. Top right photo shows part of disc shaft bore breaking off during disassembly due to heavy corrosion.

The valve disc will be sent to sandblasting and further inspection will be required to determine disc integrity.

Continuation of Disc Inspection



Above right indicate significant material loss to the disc sealing surface. This surface supports the disc laminated seat and seal gasket

Disc is not reusable.

Valve Body inspection



The flange raised face sealing portion has severe corrosion damage to both side of the body. The affected areas will require machining, weld build-up and re-machining of the flange sealing surface.

The valve body and disc shown top right require re-coating to prevent further corrosion.

Continuation of Valve Body Inspection



The above photos indicate the non-drive side of the valve. The top left is an “as received” photo which shows heavy corrosion caused by the shaft seal leaking over a considerable amount of time.

The top right photo shows material loss due to corrosion on the valve body cap flange. The cap is secured to the valve body by (8) bolts which houses the thrust bearing and retains the valve shaft.

Material Loss Due to Corrosion: .118”

Report Conclusion

Due to the severe amount of corrosion damage found to the gear, hydraulic cylinder, valve body and disc it would be highly recommended that the valve be replaced and not repaired. The cost of repair would be greater than the cost of a new valve.

By: Daniel Gomez, 11.12.2019
Adams Valves Inc.