

## PRODUCT REPAIR / SERVICE ESTIMATE

Estimate #: R2019-SAV-0137

Date: 11/5/2019

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Tag #: 4169

JobName: Hart Road

Hydraulic Type: C  
Installation

Type: P

Discharge Size: 8"

Control

FLS- 1.571

MFV

Primary Requirement: Inner Seal failure

### Repair/Service Requirements and remarks

Upon initial inspection of pump I noticed that face of volute is worn as well as guide claw and lifting handle, cooling jacket is also badly damaged. During inspection of pump cable I found cable to be dry-rotted in spots, and it is also pinched where a u-bolt crimp has been placed. Also upon inspection of cable I opened junction chamber to find that it was dry but that terminal board is out of date. I then removed the pump from the volute to inspect impeller and I found that impeller is badly worn along with impeller plate being severely worn, at this time I opened stator inspection plug and found grease and oil drainage. Which indicates that inner seal failed causing main bearing to be washed out by oil. I then checked oil to find that it was contaminated with water letting me know that outer seal failed allowing water into oil housing. Once oil was drained, and the oil housing and seals were removed I was then able to remove the cooling jacket. When jacket was removed I found that it was full of pump media. I was now able to remove the stator from the rotor at which time I found that even though stator was giving good reading it was damaged from oil, grease, and over heating. I also found that FLS unit was not operating properly which is why readings were high. When inspecting the stator I noticed that support bearing had also been contaminated/washed out. After I was finished inspecting the stator I removed the rotor/shaft from the bearing housing and found that shaft /rotor were both in good condition, but that main bearing had been completely washed out with no grease remaining.

I recommend the following BRK(basic repair kit), cable(30')w/grommet, Lifting handle, FLS and cable unit, terminal board, devcon(volute face), guideclaw, Hard iron impeller kit, cooling jacket, and stator.