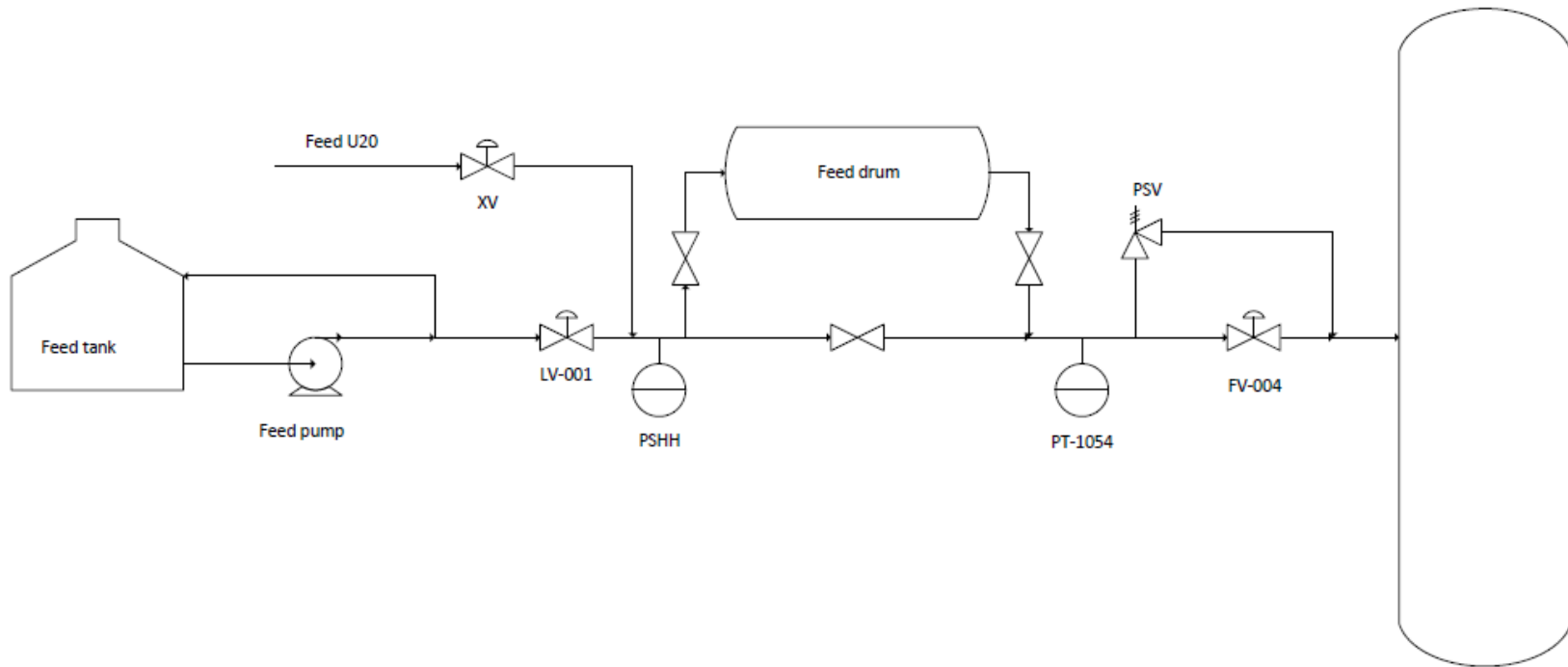


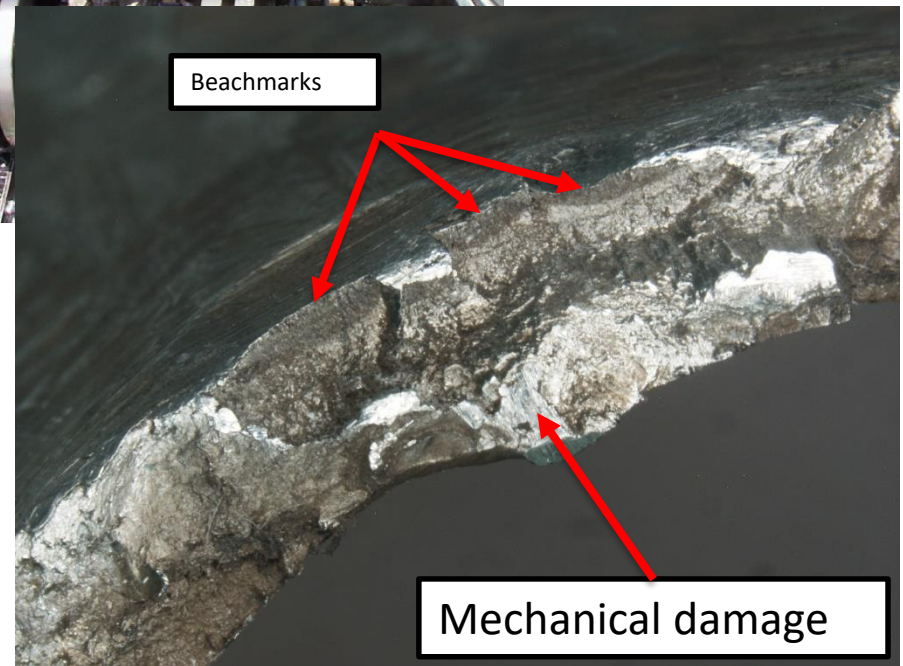
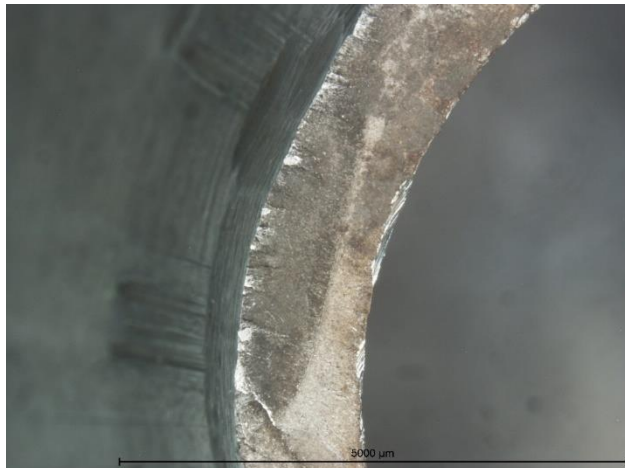
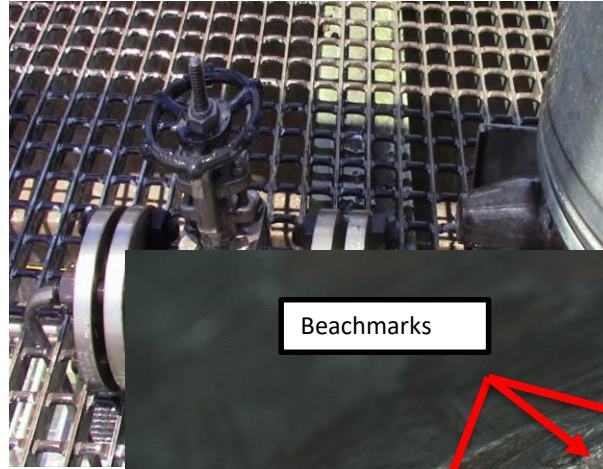
What happened?

- Stabilised Light Oil (SLO) unit lost feed from Tank Farm due to the feed pump that tripped.
- The secondary pump at Tank Farm, was started.
- The feed to the unit was restored, but at a higher pressure and flow relative to normal operations.
- Approximately 20 minutes later SLO was released from the feedline when the 1" stub broke off from the reducer where the pressure transmitter is connected. (15 ton of SLO was released)
- The SLO sprayed into the pipe rack and across the road 5 into another unit.
- Emergency Services responded when the alarm was activated.

Process flow



Photos



Learnings

- Spec breaks in pipeline not without pressure protection, credit for pressure protection on feed drum
- Inadequate pressure control in unit, control the incoming feed pressure manual with a level control valve
- PSV sizing and installation, gaseous service PSV installed in liquid service, place of installation
- End of job documentation not available after expansion project
- Trips to active at all times, high pressure trip was never commissioned during installation
- Procedure to provide line of sight when feed fall away not available
- Communication channels to long
- Risk studies to be done with upstream & downstream parties involved