

Case study 647

Hydraulic pump hire aids lock gate improvements

The Leeds and Liverpool Canal is among the UK's most well-known waterways, having been used for both travel and trade purposes for almost 250 years. Despite the obvious improvements to road and rail routes over the past century, it remains in frequent use even in the modern day. So, when one of the canal's most recognisable locks started leaking water when closed, it was vital that repairs were carried out quickly to ensure that boats could continue passing through.

This maintenance was reliant on the entire lock being pumped completely dry to allow workmen sufficient access to address the issue. From a site survey, it was determined that a hydraulic submersible pump should be deployed at the location, as suction lifts were certain to exceed what conventional end suction diesel units could achieve.

Once the precise requirements of the project were established, a Sykes technician proposed a Hydraset 80 – a purpose built 3" hydraulic submersible pump comprising of a power pack, pump end and 20m hydraulic hoses. The power pack itself is driven by a silenced diesel engine rendering this pump hire solution perfect considering residential properties were located nearby. As the unit is very compact, it was an ideal choice for this project where access was limited.

Our Hydraset 80 was selected instead of a standard diesel pump because of its ability to function effectively at greater depths. The lock was successfully drained of all water which allowed a specialist engineering team to carry out all necessary repairs on the broken gate.



Performance Max head: 31m, Max flow: 31 l/s, Max solid: 22mm
Weight Pump end: 41kg, Power pack: 850kg
Fuel tank capacity 145 litres
Dimension (mm) Pump end: 360 x 300 x 550, Power pack: 1,820 x 1,090 x 1,830
Fuel consumption 5 litres per hour
Noise level @7m 75 dBA
Pipe connections 3" Bauer



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