



M&R Hydraulics have been providing hydraulic solutions & support services for a multitude of clients' for over 30 years.

Emergency repairs

Our skilled and experienced engineers are available at short notice, 24 hours a day, to provide an on-site emergency hydraulics parts and mobile repair service.

Cylinder refurbishment

We provide a complete re-manufacturing service for hydraulic pistons, rods and cylinder tubes of all makes.

Filtration Equipment

M&R Hydraulics are the UK representative for Hy-Pro high performance filtration products.

Hoses & components

Our warehouse contains over 200,000 components & turnaround schedules that our clients find invaluable.



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Case Studies

Case Study 2 – Mobile Concrete Pumping



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Case Study 2 – Mobile Concrete Pumping - The Problem



Fleet of mobile concrete vehicles are all experiencing water ingress through wiper & gland seals and daily jet wash cleaning of vehicles.

Emulsified oil in the hydraulic system causing premature pump & valve failures.

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Case Study 2 – Mobile Concrete Pumping - The Problem



Build up of emulsified oil



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Case Study 2 – Mobile Concrete Pumping - The Problem

Hydraulic pumping pistons & water-cooling chamber



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Case Study 2 – Mobile Concrete Pumping - The Solution

Early testing confirmed a high water PPM count suggested that a Vacuum Dehydrator (V1) was the ideal choice for compact size & mobility.



Case Study 2 – Mobile Concrete Pumping - The Solution



Improvements

- With regular service plan, provide water free oil
- Cleaner oil with V1 pre filter, above fitted 10µm filtercan
- Out-perform existing free water fitter filters
- Adjustable for temperature & flow, to compensate for fluid type and to reduce foaming caused by additive depletives

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Case Study 2 – Mobile Concrete Pumping - The Solution

Plug & play set up to make it easy to move from each vehicle



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Case Study 2 – Mobile Concrete Pumping - The Solution



Water removal

- The customer had already removed the free water from the bottom of the hydraulic oil tank.
- Over a 3 hour period the V1 removed 1 litre of water from the hydraulic tank. The client was given training & instructions for the V1 and then removed a further two litres of water in the next 2 hours until the oil was clean.

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Case Study 2 – Mobile Concrete Pumping - The Results



Improvements

- Provided clean water free oil for each machine, extending the life of 'critical parts' and reducing machine down time.

Timings

- 16 weeks for ordering to delivery and operation

Savings

- Customer was able to easily justify the cost of the V1 against the number of vehicles and the savings to be made. With a 2 year payback for the V1 at £88 per month, The cost for a new pump £9000 with more than 1 being replaced each year without accounting for loss of revenue.

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