



COUNTY HOSPITAL STAFFORD



LOCATION

Stafford, West Midlands, UK

BUSINESS SECTOR

Hospital

SIZE

1,500 staff

EQUIPMENT

Long term diesel storage tanks supplying critical backup generator sets

CHALLENGES FACED

1. An IPU DieselCheck fuel test identified that both the diesel and the storage tanks were suffering from heavy contamination.
2. The diesel contained both water and asphaltene, whilst the tanks were stained from previous fuel storage.
3. It was critical for the hospital to have continued access to back up power. This meant the fuel could not be taken off site.

SOLUTIONS DELIVERED

1. IPU's ClearTank cleaning service removed over 150 litres of contamination to restore the fuel to EN590 and ISO 4406 standards.
2. IPU's ClearTank service also cleaned the storage tanks without requiring man entry and without taking the generators offline.

“Clean, dry fuel is critical for our backup power systems. When we saw the results of our fuel test we knew we had to act. The difference between the diesel before ClearTank and after was phenomenal.”

Steve Bagnall
Senior Estates Manager , NHS



IPU's ClearTank service

BACKGROUND

As part of a regular maintenance schedule, County Hospital requested an IPU DieselCheck test. The results showed that their diesel was heavily contaminated with water and asphaltene (hard, brittle particles that can agglomerate and block engine filters). This meant the County Hospital needed to act quickly as the consequences of a blackout at a hospital would be catastrophic.

CHALLENGES WITH OUTDOOR TANKS

Fuel tanks are typically located outdoors as they were at County Hospital. Unfortunately, diesel contamination will always thrive when fuel tanks are exposed to the elements. This is because water can easily enter the fuel through condensation inside the tank or rain water entering through hatches/enclosures. Even if it had been indoors, water can also enter through the delivery of contaminated diesel from a supplier. Water severely impacts how fuel performs but also promotes microbial growth and accelerates contamination from solids like rust.

RESTORING THE FUEL

At County Hospital, IPU's ClearTank service removed the water and contamination, returning the fuel to EN590 and ISO 4406 quality standards. This ensures the diesel is clean, dry and ready for when the back up generators need it. During the clean, IPU's Fuel team removed over 150 litres of contaminated water and asphaltene.

A SMOOTH, SIMPLE SOLUTION

Whilst on-site IPU's ClearTank service was entirely unobtrusive and met each of the hospitals needs. No hazardous man entry was required, the tank was cleaned simultaneously with the fuel and the generators remained online throughout.

ABOUT COUNTY HOSPITAL STAFFORD

County Hospital is an acute hospital with approximately 350 inpatient beds. Opened in 1983, it is the main hospital in Stafford and is run by the University Hospitals of North Midlands NHS Trust.

ABOUT IPU GROUP

IPU's Fuel Conditioning division provides a complete range of products and services to detect and eradicate harmful diesel fuel contamination. The range includes products for bulk fuel storage tanks, day tanks, vehicles and gensets.

150 litres

of contamination removed

www.ipu.co.uk/cleartank

IPU Group Fuel Conditioning

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