

# FUEL POLISHING SYSTEMS



TESTING

CLEANING

POLISHING

PROTECTION



## INFO CONSULTING & ENGINEERING

### Institutional

INFO Consulting & Engineering Co.Ltd. gives services in the fields of Infrastructure, Engineering and Consulting since 1994.

#### 1995 – 2013:

Engineering and consultancy services were given to a special company, IMA Group in the fields of Infrastructure and Superstructure Contracts. The task of being exclusive representative of Europages was undertaken.

#### 2004: Energy Investments

Renewable energy investments have been given priority due to the increasing demand of energy in Turkey.

#### 2008: Overseas Projects

Engineering Service Agreement was made for Libya – Tripoli Gas Transmission and Distribution Construction System Contract.

#### 2014: Institutionalization

Activities in Production and Foreign Trade fields began with the inclusion of experienced engineers on our permanent staff during the restructuring process in 2014.

Overseas sale of special design industrial products and exclusive representation of foreign companies are performed by our FOREIGN TRADE GROUP.

### What We Do ?

We specialize in

Construction and Civil Engineering Consultancy,

Management Consultancy,

Foreign Trade.

We have 22 years of experience through the engineering and consultancy services given to contracting companies in Infrastructure and Superstructure Contracts for Dams, Pressure Reduction Stations, Power Transmission Lines, Gas Transmission and Distribution Pipelines, Water Tanks, Tunnels, Plain Irrigations, Pumping Stations, Road and Bridge Construction Work. We work with several institutions , especially with DSİ ( General Directorate of State Hydraulic Works ) and KGM ( Republic of Turkey General Directorate of State Highways ).

Production and export of steelworks and exclusive representational activity of foreign companies are performed by our Foreign Trade Group.

We also carry out market studies and prepare sector and activity field reports for foreign companies.

## DIRTY FUEL

### 80% of engine FAILURES...

...start in the fuel tank. The weakest and most sensitive link in the diesel engine is the fuel injector. When subject to a very demanding working environment and contaminated fuel, engines suffer partial and complete functional failures quicker and more frequently. By removing the contamination, not only will engine lifespan increase, but the engine will become far more reliable. In the end, reliability provides peace of mind.

### FUEL CONTAMINATION

In part or in whole, failure is inevitable when any of these are present



#### Particulates/Dirt

Solid particulates, such as dirt and dust, cause damage to fuel system components through direct body abrasive wear and erosion.



#### Wax

All diesel fuels contain wax, and will contribute to premature filter blockage.



#### Asphaltenes

Although asphaltenes are less than 2µm in size in their natural state, they have a tendency to agglomerate, forming clusters around 100-200µm that cause premature fuel filter blockage.



#### Water

Water is most damaging contaminant found within diesel fuel, and is a primary catalyst to additional fuel breakdown.



#### Microbial Growth

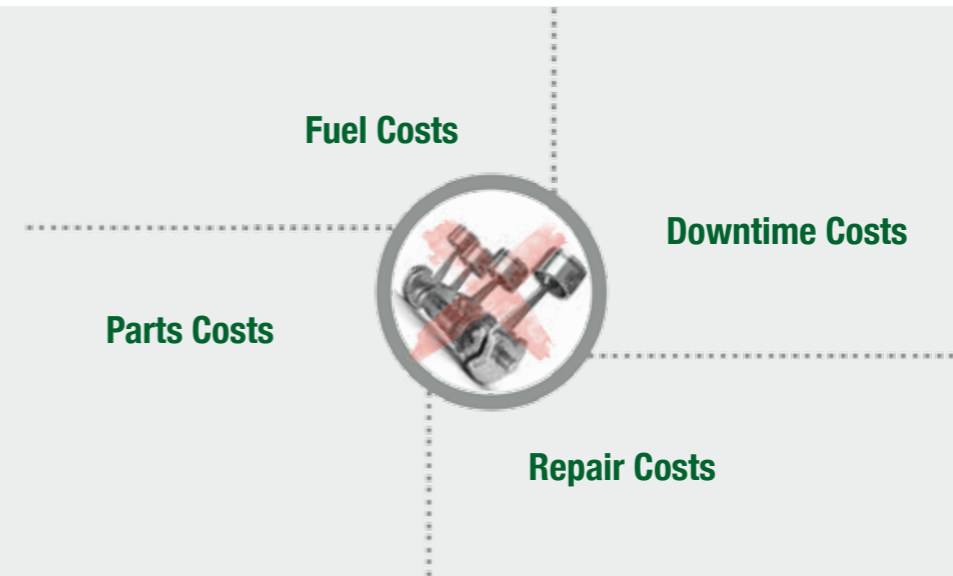
There is one simple rule when it comes to microbial growth in diesel fuel-it cannot exist without the presence of water.



#### Sludge

Sludge is typically a combination of different particulate, including microbial growth, organic and inorganic waste compounds, waxes, and other contaminants.

## THE COSTS BEHIND DIRTY FUEL



#### Fuel Costs

Engines supplied with dirty fuel consume more fuel, as the Engine Control Unit (ECU) has to compensate for poor performance and power loss.

#### Parts Costs

Although diesel engines have had significant technological advances, fuel has stayed primarily the same, leading to increased part degradation and replacement.

#### Downtime Costs

The most detrimental and costly expense for a facility is the inability to operate. Downtime costs compound the longer it takes to become operational and cut into the bottom line of a business.

#### Repair Costs

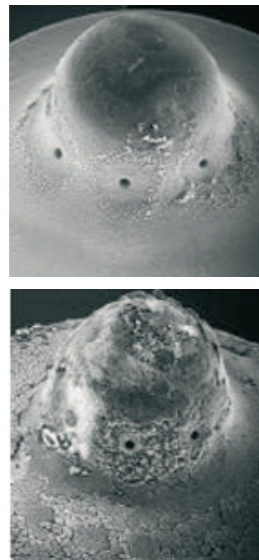
Though many facilities plan on regular maintenance, repair frequencies are greater when dirty fuel runs through an engine, due to the negative effects of contamination.

## WHAT FUEL CONTAMINATION DOES

Contaminated diesel fuel leaves you without the required back up power supply when you need your power generators.

### Clogging of filters

Diesel fuel is naturally unstable and forms sediments over time. Diesel fuel stored for emergency power generators become contaminated by the presence of water, exposure to dust & dirt and fuel composition. The result is clogging of filters and failure of fuel injectors.



### Deformation of nozzle holes

Fuel injector nozzle holes generally have two failure conditions which result in the partial functional failure of a fuel injector. These two conditions are blockage and erosion, which lead to non-atomization and leakage onto the cylinder head.

### Power Supply Failure



## FUEL POLISHING SYSTEMS

### INFO Consulting & Trade



**provides you  
with 4-tier form  
of solution.**



**Diesel fuel starts to break down in just 28 days.  
How clean is your stored diesel fuel ?**



Mobile Tank Cleaning Systems are recommended for cleaning diesel fuel tanks as well as the fuel in various applications WITHOUT tank entry.



MTC 6000



Compact Mobile Tank Cleaning CMTC 600-PF and CMTC-600-F



APS-1350-F Absolute

To make sure your engines run reliably and efficiently on diesel, it is strongly recommended to install a Fuel Polishing System on each tank so that the diesel will be gently recycled and filtered at pre-programmed intervals without any operator involvement.



AFS Series, Absolute Filtration Systems

- Long term protection for fuel
- Maintains the quality of stored diesel
- Improves the reliability of critical systems
- Treats the fuel before it reaches the engine or day tanks
- Circulates fuel to prevent build up of contamination in stagnant parts of the tank

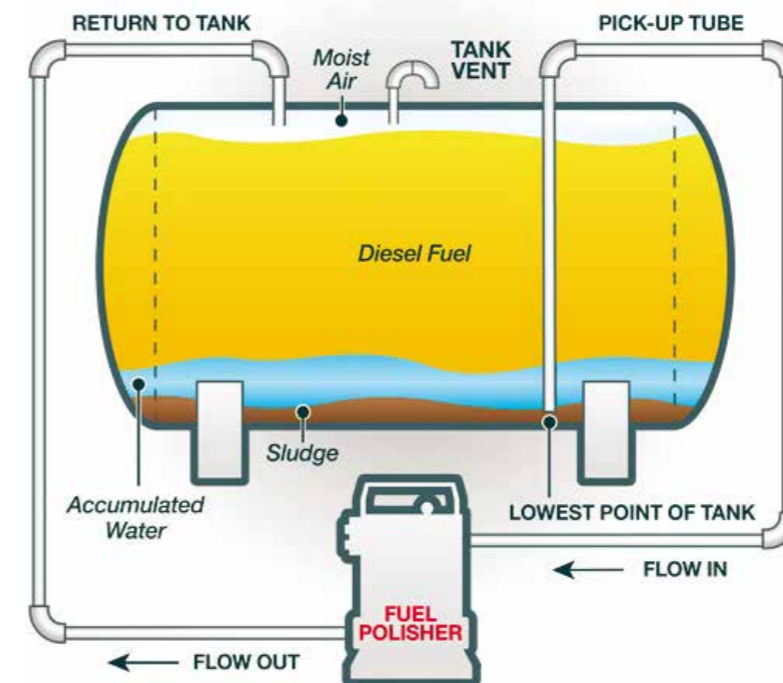


CPS-600



Prefilter & Polisher in One

## FUEL POLISHING SYSTEM



- Removes water
- Removes bacteria and solid particulates
- Reliable fuel quality

## PROTECTION / FUEL POLISHING SYSTEMS

We offer you powerful full spectrum additives providing superior fuel quality for engines and storage tanks, lowering operating cost, maintenance and downtime.

Fuel Additives clean your tanks and when added with each refueling, enhances combustion, eliminates carbon deposits, reduces harmful emissions, and lowers fuel consumption.



# FUEL POLISHING SYSTEMS MAXIMUM SECURITY AND PERFORMANCE FOR YOUR POWER UNIT

Did You  
Ever Check  
the  
Cost of

1 Hour  
Power  
Outage

