PROTEAP 2®

DIESEL TREATMENT





# P550
# DIESEL TREATMENT
## ENGINES

PRODUCT CARD

## PRESENTATION

**P550 - DIESEL TREATMENT** is a high-tech formula offering a total solution for treatment and prevention to professional users of diesel engines, solving most problems involved with fuel (FOD, Gasoil, Bio-Fuel). This product is an evolution of P350 optimized by a new chemical formula in terms of lubrication, detergency, dispersant, anti-corrosive and antioxidant. The tribology test was carried out successfully (improvement from 1 to 3) in the laboratories of one of the world leaders of high-pressure injection. P.550 HEAVY FUEL is as an innovative high-tech formula for improvement in the use of heavy fuel oil both in the miscibility of different fuels and in terms of optimizing the combustion.

The consequences are drastic for the protection of storage facilities, pipelines, separators, pumps, injectors, cylinders and valves. This product acts on the miscibility and combustion. This is undoubtedly the most effective product on the market. The molecular concentrations can vary depending on the analysis of heavy fuel oil.

## APPLICATION

### 1. STORAGE (TANKS, CISTERNS)

- **Prevents** internal corrosion
- **Cleans** and **protects** the tanks and cisterns
- **Disperses** sludge and sediments of hydrocarbon origin
- **Prevents** bacterial contamination
- **Disperses** and **reduces** bacteria
- **Neutralizes** moisture
- **Puts** a protective film on the walls of the tank

### 2. ENGINE (FOD, GASOIL, BIO-FUEL)

- **Cleans** and **lubricates** fuel injection pumps and injectors
- **Avoids** and **eliminates** gum in injectors
- **Protects against erosion** cylinder heads, piston rings, valve seats and heads
- **Clean** cylinder heads, piston rings, valves and combustion chambers
- **Prevents corrosion** and prevents **contamination** of engine oil
- **Burns** off impurities and bacteria
- **Inhibits gas and heavy micro particles** in post-combustion
- **Prevents** the formation of Micro-Organisms in non contaminated elements
- **Cleans** the fuel system and filters
- **Eliminates** the laminating effects and **ensures** regular idle
- **Restores the original performance** of the Engine and extends its life
- **Reduces** fuel consumption

### 1. ENGINE (HFO, FO2)

- **Removes** the risk of incompatibility during bunkering
- **Promotes permanently** homogeneity and fluidity of the fuel
- **Disperses** sludge and deposits
  **Prevents** organometallic deposit formation (Vanadium, Aluminium, Iron, Nickel)
- **Demulsification water** in the fuel and contributes to a better separation in the centrifuge
- **Prevents formation** of wax and bacteria
- **Neutralizes** the negative effects of sulphur
- **Prevents** filter saturation
- **Prevents** and **suppresses** the formation of gum on the pumps and injectors
- **Protects** high cylinders, piston rings and valves
- **Improves** combustion
- **Ensures** regular and stable slow
- **Significantly reduces** the formation of heavy particles in exhaust
- **Reduces** NOx emissions (nitrogen monoxide)
- **Reduces** consumption
- **Protects** against wear
- **Improves** engine performance
- **Extends** the life of the engine
- Reduces air pollution

## PACKAGING

Metal flask of **200 mililiters** in cardboard of **56 pieces**
Metal flask of **460 mililiters** in cardboard of **30 pieces**
Metal can of **1 liter** in cardboard of **16 pieces**
Metal can of **5 liters** in cardboard of **6 pieces**
Metal barrel of **30 liters**
Metal barrel of **200 liters**

## COMPOSITION OF THE PRODUCT

- Detergent Complex
- Lubricant
- Dispersing Complex
- Hydrocarbon solvents
- Anti-corrosion molecules • Demulsifying product
- Antioxidant product
- Poly molecular active Complex • Organic dispersant
- Procetane

## LABORATORY TESTS

ASTM D613 / HFRR / NFR 106025 / M07075 / ASTM D665A / ASTM D665B / ASTM D130 / ASTM D2274

## PHYSICAL CHARACTERISTICS

| Properties | Caracteristics |
|---|---|
| Color | Yellowish brown |
| Odour | characteristic |
| Boiling point or initial boiling point and boiling range | 179 °C at 1 atm |
| Flammability | non-combustible |
| Lower and upper explosion limit | 0,6 vol% - 7 vol% |
| Flash point | 70 – 72 °C |
| Auto-ignition temperature | >200 °C (auto-ignition temperature (liquids and gases)) |
| Kinematic viscosity | 2,20 - 3,65 cSt |
| Vapour pressure | 380 Pa at 50 °C |
| **Density and/or relative density** | |
| Density | 898 – 925 kg/m³ at 15 °C |
| **Other safety characteristics** | |
| Temperature class (EU, acc. to ATEX) | T3 (maximum permissible surface temperature on the equipment : 200°C |

## DOSAGE GUIDE

First treatment (curative) 0.5% (5000 PPM) this is to say 1 liter of P550 for 150 liters of fuel. (only if the devide at + 40 000 km or 800 hours).
Treatment (preventive) 0.1 % (1000 PPM) this is to say 1 liter of P550 for 320 liters of fuel : every 3 fuel or 1 liter of P550 for 1 000 liters : every fuel.

## USAGE

Pour the product before the tank's filling in order to obtain a homogeneous mixture.
For the direct use in the tanks, it is recommended to carry out also direct additivation of each engine in recommended proportioning.

## NOTE

For the first use of the product, **PROTEA P2 FRANCE** recommends the assistance of a technician or a person trained by our technical team so that the product is properly implemented.

PROTEA P2®

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# P550

## Diesel Treatment


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