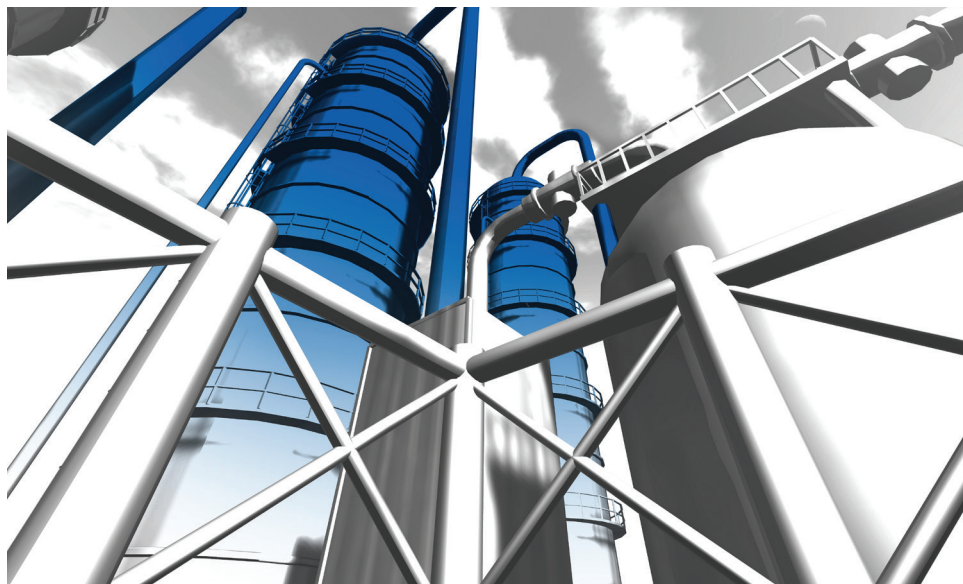


FUELS

# HiTEC<sup>®</sup> 4858

Specification and Distribution Additive



Lubricity Improver for Diesel Fuels

## HiTEC® 4858 Specification and Distribution Additive

Lubricity Improver for Diesel Fuels

### Background

As the sulphur level of diesel fuel is reduced, the inherent lubricating characteristics of the fuel are also reduced. This is mainly due to increased refinery processing required to meet the more stringent sulphur specifications. These processes result in:

- Removal of sulphur & nitrogen
- Aromatics may be decreased

These processes have a negative impact on the fuels natural lubricity characteristics and this can be restored by the use of lubricity improvers. Vehicle manufacturers consider the lubricating properties of diesel fuels below 350 ppm sulphur unacceptable. EN590 and other world fuels specs require a HFRR performance of minimum 460 microns wear scar diameter.

### Key Performance Benefits

HiTEC® 4858 finished fuels additive is the most effective solution to lubricity improvement in lower sulphur diesel fuels. HiTEC® 4858 finished fuels additive provides protection to metal wear surfaces by adsorbing on to the metal surface through interaction of the polar head group. The fuel soluble end provides boundary layer lubrication. HiTEC® 4858 additive:

- Provides high performance at low treat-rate
- Compatible with all commonly used diesel fuel additives
- Enhanced corrosion protection
- Proven 'no harm' with millions of vehicle miles.
  - 67% of low sulphur diesel fuel is treated with mono acid technology

### Recommended Dosage

The treat-rate required for optimum treatment of low sulphur diesel fuel will depend on the severity of refinery processing, fuel quality and the performance target but should be in the region of 75 to 200 ppmv.

### Typical Characteristics

Appearance:	Clear yellow to amber liquid
Density at 15°C, g/ml:	0.907
Flash Point, °C (PMCC):	40 min.
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s:	12
Kinematic Viscosity at -30°C, mm <sup>2</sup> /s:	450 max

### Handling Information

Max Handling Temp: 40°C  
Shelf Life: 24 months at 15-35°C

