

# INDUSTRIAL | HYDRAULIC

## HiTEC<sup>®</sup> 543

Ashless Anti-wear Hydraulic Additive Package



Premium Ashless Hydraulic Technology Designed with the Environment in Mind



 **Afton<sup>®</sup>**  
CHEMICAL  
Passion for Solutions<sup>®</sup>



## HiTEC® 543 Ashless Anti-wear Hydraulic Additive Package

Premium Ashless Hydraulic Technology Designed with the Environment in Mind

### Key Performance Benefits

HiTEC® 543 provides high performance in environmentally sensitive applications (i.e. forestry, logging); where watercourse or aquifer sensitivity exists or where legislation requires the use of ashless hydraulic oils.

HiTEC® 543 delivers performance benefits in a number of key areas:

#### - No compatibility issues

Compatible with zinc-based and other ashless hydraulic fluids, resulting in no miscibility problems in application

#### - Excellent oxidation stability

Capability to extend the oil drain interval resulting in reduced disposal costs. Potential to improve efficiency during the length of the oil drain

#### - Good sludge and particulate control

Improved filterability and consequently less downtime. Improved protection of critical components with tight tolerances, such as servo-valves and pumps

#### - Superior wear protection

Delivering maximised equipment life and reduced maintenance costs

#### - Excellent hydrolytic stability

Improved protection and extended life of yellow metal parts of the equipment

### Recommended Dosage

The standard treat-rate for HiTEC® 543 is 0.87 % wt. It has been extensively tested in a range of Group I, II and biodegradable vegetable base stocks. HiTEC® 543 can be used at increased treat-rates to meet a diverse range of industrial applications. Treat-rate may vary depending on base stock. Please contact your Afton Chemical representative for specific recommendations.

### Typical Characteristics

Appearance:	Dark brown liquid
Density at 15°C, g/ml:	0.962
Density, lbs/gal:	8.03
Specific Gravity at 15.6/15.6°C:	0.964
Flash Point, °C (PMCC):	105 min.
Kinematic Viscosity at 40°C, cSt:	139

### Improved Filterability = Less Downtime



Competitor 1  
in Group I ISO 46



HiTEC® 543  
in Group I ISO 46

### Performance Profile

Correctly formulated hydraulic fluids using HiTEC® 543 are capable of meeting the following specifications:

- Denison HF-0, HF-1, HF-2 and HF-6 with AO booster in vegetable base stocks
- Eaton M-2950-S
- MAG P68, P69, P70
- DIN 51524 part II
- ISO 11158
- ASTM D6158
- SAE MS 1004
- Bosch Rexroth RE 90220
- GM LS-2
- Conestoga pump test ISO 20763

### Handling Information

Recommended Handling Temp: 80°C  
Shelf Life: 12 months at ambient temperature